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A-101

SAPC-8172  
Cy 1 of 25

# SYSTEM I PARTS-DATA LIST

~~ORIGINAL CLEY 235979  
CLASS. CHANGED TO: S 2011  
AUTH: HR 702  
DATE: 10/11/01 REVIEWER: 037169~~

~~DOCUMENT NO. \_\_\_\_\_  
NO CHANGE IN CLASS. ☐  
CLASS. CHANGED TO: S 2011  
NEXT REVIEW DATE: \_\_\_\_\_  
AUTH: HR 702  
DATE: 10/11/01 REVIEWER: 037169~~

The Ramo-Wooldridge Corp.  
8820 Bellanca Avenue  
Los Angeles 45, California

Technical Publications  
Communications Division  
29 May 1956

Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

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#### ORGANIZATION OF THE PARTS-DATA LIST

The parts-data list is divided into three sections. The first section of the list describes all of the replaceable parts and assemblies which constitute the airborne equipment. The second section of the list describes all of the replaceable parts and assemblies of the ground-based equipment. The third section contains an alphabetical list of manufacturers' names and addresses.

Only PARTS considered replaceable are listed. Where a special fixture is required to disassemble and re-assemble parts, the parts are not considered replaceable, and the entire assembly is listed. Standard hardware items are not included in the list, but all electronic parts are tabulated.

Where a particular type of part (e.g., a 100-ohm resistor) is used in more than one place, the number of such parts used in the equipment is listed in the ITEMS PER EQUIPMENT column of the parts-data list. The number of items used in the equipment is listed opposite the initial part description. Descriptions of duplicate parts are limited to "Same as . . . , " and the number of items per equipment is not repeated.

In Section I of the parts-data list, each number of ITEMS PER EQUIPMENT is tabulated in terms of the System 1 airborne equipment. In Section II, ITEMS PER EQUIPMENT refers to the ground-based equipment.

The first item listed on Sheet 1 is the MASTER ASSEMBLY. This MASTER ASSEMBLY includes all of the equipment units (COMPLETE ASSEMBLIES) and interunit cables which comprise System 1 airborne equipment. On the MASTER ASSEMBLY drawing, the equipment units are referred to by letter-number designations (A1, B, W1201, etc.). Also, each equipment unit has a nameplate bearing an MP number (MP10922, MP10737, etc.). The first two pages of the parts-data list provide a correlation between the letter-number designations and the MP-number designations.

Each item listed in the parts-data list bears an item number. The item numbers are assigned in sequence (beginning with item 1) to each COMPLETE ASSEMBLY, to each ASSEMBLY, and to each PART. As an index, the item numbers pertaining to each COMPLETE ASSEMBLY are listed on the first two sheets of the parts-data list.

The MP number of one of the COMPLETE ASSEMBLIES appears at the top of each of the pages. Replaceable ASSEMBLIES of the COMPLETE ASSEMBLY are listed on these pages, with replaceable PARTS of the ASSEMBLIES listed immediately below the ASSEMBLY description. The left-hand margin of each PART description is indented.

## EQUIPMENT (NOMENCLATURE) SYSTEM 1

SHEET 1 OF 148 SHEETS

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NAME OF CONTRACTOR The Ramo-Wooldridge CONTRACT R-W Project 5021

## PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
	SYSTEM ONE, MASTER ASSEMBLY The master assembly includes the following units:				R-W Dwg. 50400001			
	(Either) MP10922. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 1 through 7.	UNIT A1	MP10922	Ramo-Wooldridge	R-W Dwg. 50402014	2 Req. Per System		
	(Or) MP10308. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 8 through 12.	UNIT A2	MP10308	Ramo-Wooldridge	R-W Dwg. 50402025	2 Req. Per System		
	MP10641. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 13 through 113.	UNIT C1	MP10641	Ramo-Wooldridge	R-W Dwg. 50404078	2 Req. Per System		
	MP10737. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 114 through 468.	UNIT B	MP10737	Ramo-Wooldridge	R-W Dwg. 50401002	1 Req. Per System		
	MP10406. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 469 through 491.	UNIT C2	MP10406	Ramo-Wooldridge	R-W Dwg. 50403201	1 Req. Per System		
	MP63003. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 492 through 494.	W1201 and W1204	MP63003	Ramo-Wooldridge	R-W Dwg. 50400002	1 Req. Per System 1 Req. Per System		
	MP63005. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 495 through 497.	W1202	MP63005	Ramo-Wooldridge	R-W Dwg. 50400003	1 Req. Per System		

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EQUIPMENT (NOMENCLATURE)		SYSTEM 1		SHEET 2 OF SHEETS				
NAME OF CONTRACTOR		Ramo-Wooldridge		PARTS DATA LIST				
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
	MP63004. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 498 through 502.	W1203	MP63004	Ramo-Wooldridge	R-W Dwg. 50400004	1 Req. Per System		
	MP63006. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 503 through 511.	W1205	MP63006	Ramo-Wooldridge	R-W Dwg. 50400005	1 Req. Per System		
	MP10566. This unit is a complete assembly. Replaceable parts and assemblies are listed as items 512 through 824.	TEST SET	MP10566	Ramo-Wooldridge	R-W Dwg. 50403357			
	RE-RECORD EQUIPMENT. This equipment includes the replaceable parts and assemblies listed as items 825 through 848.							
	AUXILIARY EQUIPMENT. Equipment and supplies used in operating and maintaining System 1 are listed as items 849 through 891.							

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**PARTS-DATA LIST**  
**SECTION I**  
**AIRBORNE EQUIPMENT**

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EQUIPMENT (NOMENCLATURE) MPI0922 OF SYSTEM 1

SHEET 3 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
1	MPI0922, COMPLETE ASSEMBLY Over-all dimensions 9.95 in. lg x 11.81 in. dia. MPI0922 engraved on nameplate. Consists of the following replaceable parts and assemblies:	UNIT A1	MPI0922	Ramo-Wooldridge	R-W Dwg. 50402014	2 Req. Per System		
2	DIPOLE AND REFLECTOR Assembly. Consists of a double-dipole reflector feed, reflector, and center-conductor assembly. Over-all dimensions 6.88 in. lg x 11.81 in. dia. MPI0922 engraved on nameplate.		MP10310	Ramo-Wooldridge	Items 1, 2, 5, 6, and 7 of R-W Dwg. 50402014	1 Req. Per Complete Ass'y. (2/Sys.)		
3	CONNECTOR, Main Tube. Made from #2024 ST-4 aluminum bar. Over-all dimensions 0.812 in. lg x 0.750 in. dia. One end has an O.D. of 0.520 in., an I.D. of 0.284 in. with a 5/16-48 NF-3 thread 0.250 in. lg. The other end has an O.D. of 0.470 in. with a 15/32-40 NF-3 thread 0.130 in. lg, an I.D. of 0.374 in. The 0.750 in. dia is medium knurled. Connector is gold plated.		MP10114	Ramo-Wooldridge	R-W Dwg. 50402011	1 Req. Per Complete Ass'y. (2/Sys.)		
4	BUSHING, Conductor Support. Made from teflon 0.500 in. lg x 0.375 in. dia with a 0.115 in. dia hole through the center.		MP10307	Ramo-Wooldridge	R-W Dwg. 50402013	1 Req. Per Complete Ass'y. (2/Sys.)		
5	ADAPTER, Coaxial. Made from #2024 ST-4 aluminum bar. Over-all dimensions 0.600 in. lg x 0.750 in. dia.		MP10097	Ramo-Wooldridge	R-W Dwg. 50402012	1 Req. Per Complete Ass'y. (2/Sys.)		

EQUIPMENT (NOMENCLATURE)		MPI0922 OF SYSTEM 1						
NAME OF CONTRACTOR		Ramo-Wooldridge Corp CONTRACT				R-W Project 5021		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
5	ADAPTER, Coaxial. (Cont'd.) in. dia. One end has an O.D. of 0.75 in. medium knurled, an I.D. of 0.438 in. with a 7/16-40 NF-3 thread 0.125 in. lg. The other end has an O.D. of 0.625 in. with a 5/8-24 NF-3 thread 0.354 in. lg. Adapter is gold plated.		MP10097	Ramo-Wooldridge	R-W Dwg. 50402012	1 Req. Per Complete Ass'y. (2/Sys.)		
6	CRYSTAL MOUNT, Coaxial. Over-all dimensions 2.375 in. lg x 0.820 in. dia. Nickle plated.		MP10151	Waveline, Inc.	920	1 Req. Per Complete Ass'y. (2/Sys.)		
7	CRYSTAL. Silicon diode Type MA-408. Over-all dimensions 0.550 in. lg x 0.160 in. wide x 0.160 in. high. Marked as follows: MA-408 Microwave.		MP55002	Microwave Assoc.	MA-408	1 Req. Per Complete Ass'y. (2/Sys.)		



EQUIPMENT (NOMENCLATURE) MP10308 OF SYSTEM 1

SHEET 5 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp. CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
8	MP10308, COMPLETE ASSEMBLY Over-all dimensions 6.44 in. lg x 6.53 in. dia. MP10308 engraved on nameplate. Consists of the following replaceable parts and assemblies:	UNIT A2	MP10308	Ramo-Wooldridge	R-W Dwg. 50402025	2 Req. Per System		
9	DIPole AND REFLECTOR Assembly. Consists of a double-dipole wave-guide feed, wave guide, and reflector. Over-all dimensions 4.688 in. lg x 6.53 in. dia. MP10308 engraved on nameplate.		MP10183	Ramo-Wooldridge	Items 1, 2, 3, and 6 of R-W Dwg. 50402025	1 Req. Per Complete Ass'y. (2/Sys.)		
10	FLANGED-WAVEGUIDE AND CRYSTAL HOLDER Assembly. Waveline Type #616C-BNC.		MP10152	Waveline, Inc.	#616C-BNC	1 Req. Per Complete Ass'y. (2/Sys.)		
11	CAP, Crystal Holder. Waveline type (for above).		MP10084	Waveline, Inc.		1 Req. Per Complete Ass'y. (2/Sys.)		
12	CRYSTAL. Silicon diode Type MA-408. Over-all dimensions 0.550 in. lg x 0.160 in. wide x 0.160 in. high. Marked as follows: MA-408 Microwave.		MP55002	Microwave Assoc.	MA-408	1 Req. Per Complete Ass'y. (2/Sys.)		

EQUIPMENT (NOMENCLATURE) MP10641 OF SYSTEM 1  
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SHEET 6 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
13	MP10641 COMPLETE ASSEMBLY. Over-all dimensions 7.125 in. lg x 5.125 in. wide x 1.968 in. high. MP10641 engraved on nameplate. Consists of the following replaceable parts and assemblies:	UNIT C1	MP10641	Ramo-Wooldridge	R-W Dwg. 50404078	2 Req. Per System		
14	COVER ASSEMBLY. Formed from 0.032 in. sheet aluminum. Over-all dimensions 7.125 in. lg x 5.125 in. wide x .768 in. high. Drilled for mounting on the case assembly. Has four spacers for mounting the printed-circuit-board assembly. Includes three permanently-mounted and hermetically-sealed jacks and a gasket. MP10641 engraved on nameplate. Black-wrinkle finish.		MP10142	Ramo-Wooldridge	R-W Dwg. 50404061	1 Req. Per Complete Ass'y. (2/Sys.)		
15	CASE ASSEMBLY. Formed from 0.032 in. sheet aluminum. Over-all dimensions 7.00 in. lg x 5.00 in. wide x 1.21 in. high, seven drilled and tapped mounting posts. Black-wrinkle finish.		MP10141	Ramo-Wooldridge	R-W Dwg. 50404059	1 Req. Per Complete Ass'y. (2/Sys.)		
16	PRINTED CIRCUIT BOARD ASSEMBLY. Printed-circuit board, complete with all electrical and mechanical parts. Over-all dimensions 6.50 in. lg x 4.81 in. wide x 1.375 in. high		MP10002	Ramo-Wooldridge	R-W Dwg. 50404016	1 Req. Per Complete Ass'y. (2/Sys.)		
The following parts of the printed circuit board assembly are replaceable:								

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EQUIPMENT (NOMENCLATURE) MP10641 OF SYSTEM 1

SHEET 7 OF SHEETS

NAME OF CONTRACTOR Ram Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
17	CAPACITOR, tantalum, dry electrolytic, polarized 0.875 in. lg x 0.281 in. dia, 4 mfd, 150 vdcw, +85C to -55C operating temperature	C101	MP30003	General Electric	29F447	8		
18	CAPACITOR, fixed, ceramic-dielectric, 0.500 in. lg x 0.250 in. dia, 1000 mmf, +20%, 600 vdcw, 85C operating temperature	C102	MP30045	Centralab	D6-102	12		
19	Same as C101	C103						
20	Same as C102	C104						
21	CAPACITOR, fixed, flat disc ceramic, 0.5938 in. dia, 0.02 mfd, 600 vdcw	C105	MP30041	Erie	817-.02	28		
22	Same as C105	C108						
23	Same as C101	C109						
24	Same as C102	C110						
25	CAPACITOR, fixed, silver mica, 0.7812 in. lg x 0.4375 in. wide x 0.2188 in. thick, 1000 mmf, +5% 500 vdcw	C111	MP30035	El Menco	DM20C102J	4		
26	Same as C105	C112						

EQUIPMENT (NOMENCLATURE) MPI0641 OF SYSTEM 1  
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SHEET 8 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021 PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
27	Same as C105	C115	MP30005	Mallory	TAP	8		
28	Same as C111	C116						
29	CAPACITOR, fixed, sub-miniature electrolytic; 0.375 in. lg x 0.219 in. dia, 2 mfd, 100 vdcw, +85C to -55C operating temperature	C117						
30	Same as C105	C118						
31	Same as C117	C119						
32	Same as C105	C120	MP30002	General Electric	29F469	4		
33	Same as C105	C121						
34	Same as C102	C122						
35	CAPACITOR, dc, tantalum, dry electrolytic, polarized, 0.687 in. lg x 0.187 dia, 1 mfd, 150 vdcw, +85C to -55C operating temperature	C123						
36	Same as C123	C124						
37	Same as C102	C125	MP30040	El Menco	DM15C301J	2		
38	Same as C105	C126						
39	Same as C102	C129						
40	CAPACITOR, fixed, silver mica, 0.4375 in. lg x 0.3438 in. wide x 0.2188 in. thick, 300 mmf + 5%, 500 vdcw, j+125C to -55C operating temperature	C130						

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EQUIPMENT (NOMENCLATURE) MP10641 OF SYSTEM 1

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SHEET 9 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
41	Same as C117	C131						
42	CAPACITOR, fixed, silver mica, 0.4375 in. lg x 0.3438 in. wide x 0.2188 in. thick, 500 mmf + 5%, 500 vdcw, +125C to -55C operating temperature	C132	MP30036	El Menco	DM19C501J	2		
43	Same as C105	C133						
44	Same as C105	C134						
45	DIODE, silicon junction, 0.210 in. lg x 0.210 in. wide x 0.135 in. thick, 2 leads, 1.50 in. lg x 0.017 in. dia	CR102	MP55003	Texas Instrument	601C -	4		
46	Same as CR102	CR103						
47	DELAY LINE, 4.00 in. lg x 0.375 in. dia, 500 ohm impedance	DL101	MP64002	Brubaker	DL-190	2		

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EQUIPMENT (NOMENCLATURE)		NAME OF CONTRACTOR		CONTRACT		PARTS DATA LIST		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
48	RESISTOR, fixed, composition, 15,000 ohms, $\pm 5\%$ , 1/2 watt	R101	MP20234	Allen-Bradley	EB	2		RC20GF153J
49	RESISTOR, fixed, composition, 4700 ohms, $\pm 5\%$ , 1/2 watt	R102	MP20219	Allen-Bradley	EB	2		RC20GF472J
50	RESISTOR, fixed, composition, 3900 ohms, $\pm 5\%$ , 1/2 watt	R103	MP20189	Allen-Bradley	EB	7		RC20GF392J
51	RESISTOR, fixed, composition, 270 ohms, $\pm 5\%$ , 1/2 watt	R104	MP20122	Allen-Bradley	EB	2		RC20GF271J
52	RESISTOR, fixed, composition, 100,000 ohms, $\pm 5\%$ , 1/2 watt	R105	MP20296	Allen-Bradley	EB	20		RC20GF104J
53	RESISTOR, fixed, composition, 6800 ohms, $\pm 5\%$ , 3 watt	R108	MP20002	Sprague	151E	2		
54	RESISTOR, fixed, composition, 5100 ohms, $\pm 5\%$ , 1 watt	R109	MP20321	Allen-Bradley	GB	2		RC30GF512J
55	RESISTOR, fixed, composition, 220 ohms, $\pm 5\%$ , 1/2 watt	R110	MP20146	Allen-Bradley	EB	2		RC20GF221J

EQUIPMENT (NOMENCLATURE) MP10641 OF SYSTEM I							PARTS DATA LIST	
NAME OF CONTRACTOR Ramo-Wooldridge Corp. CONTRACT R-W Project 5021								
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
56	RESISTOR, fixed, composition, 3000 ohms, $\pm 5\%$ , 1/2 watt	R111	MP20138	Allen-Bradley	EB	8		RC20GF302J
57	Same as R105	R112						
58	RESISTOR, fixed, composition, 22,000 ohms, $\pm 5\%$ , 1/2 watt	R115	MP20368	Allen-Bradley	EB	19		RC20GF233J
59	RESISTOR, fixed, composition, 510 ohms, $\pm 5\%$ , 1/2 watt	R116	MP20174	Allen-Bradley	EB	2		RC20GF511J
60	RESISTOR, fixed, composition, 1800 ohms, $\pm 5\%$ , 1/2 watt	R117	MP20102	Allen-Bradley	EB	2		RC20GF182J
61	Same as R105	R118						
62	Same as R103	R122						
63	Same as R111	R123						
64	RESISTOR, fixed, composition, 13,000 ohms, $\pm 5\%$ , 1/2 watt	R124	MP20263	Allen-Bradley	EB	2		RC20GF133J
65	RESISTOR, fixed, composition, 7500 ohms, $\pm 5\%$ , 1/2 watt	R125	MP20255	Allen-Bradley	EB	2		RC20GF752J
66	Same as R105	R126						
67	RESISTOR, fixed, composition, 1.0 meg, $\pm 5\%$ , 1/2 watt	R127	MP20157	Allen-Bradley	EB	4		RC20GF105J
68	RESISTOR, fixed, composition, 10,000 ohms, $\pm 5\%$ , 1/2 watt	R128	MP20169	Allen-Bradley	EB	12		RC20GF103J

EQUIPMENT (NOMENCLATURE) MPI0641 OF SYSTEM 1

SHEET 12 OF SHEETS

NAME OF CONTRACTOR Ramo-Wouldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
69	Same as R111	R129						
70	RESISTOR, fixed, composition, 4.7 meg, $\pm$ 5%, 1/2 watt	R132	MP20107	Allen-Bradley	EB	2		RC20GF475J
71	RESISTOR, fixed, composition, 2.2 meg, $\pm$ 5%, 1/2 watt	R133	MP20153	Allen-Bradley	EB	2		RC20GF225J
72	RESISTOR, fixed, composition, 27,000 ohms, $\pm$ 5%, 1/2 watt	R136	MP20325	Allen-Bradley	EB	2		RC20GF273J
73	RESISTOR, fixed, composition, 62,000 ohms, $\pm$ 5%, 1/2 watt	R137	MP20206	Allen-Bradley	GB	2		RC20GF623J
74	RESISTOR, fixed, composition, 3300 ohms, $\pm$ 5%, 1/2 watt	R138	MP20271	Allen-Bradley	EB	2		RC20GF332J
75	RESISTOR, fixed, composition, 6800 ohms, $\pm$ 5%, 1/2 watt	R139	MP20254	Allen-Bradley	EB	2		RC20GF682J
76	RESISTOR, fixed, composition, 2000 ohms, $\pm$ 5%, 1/2 watt	R141	MP20104	Allen-Bradley	EB	3		RC20GF202J
77	Same as R103	R142						
78	RESISTOR, fixed, composition, 470,000 ohms, $\pm$ 5%, 1/2 watt	R143	MP20375	Allen-Bradley	EB	5		RC20GF474J
79	RESISTOR, fixed, composition, 560,000 ohms, $\pm$ 5%, 1/2 watt	R144	MP20176	Allen-Bradley	EB	2		RC20GF564J
80	Same as R128	R145						



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SHEET 13 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp. CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
81	Same as R111	R146						
82	Same as R128	R147						
83	RESISTOR, fixed, composition, 30,000 ohms, $\pm 5\%$ , 1/2 watt	R150	MP20167	Allen-Bradley	EB	2		RC20GF303J
84	RESISTOR, fixed, composition, 150,000 ohms, $\pm 5\%$ , 1/2 watt	R151	MP20320	Allen-Bradley	EB	2		RC20GF154J
85	RESISTOR, fixed, composition, 220,000 ohms, $\pm 5\%$ , 1/2 watt	R152	MP20101	Allen-Bradley	EB	17		RC20GF224J
86	RESISTOR, fixed, composition, 5100 ohms, $\pm 5\%$ , 1/2 watt	R153	MP20116	Allen-Bradley	EB	7		RC20GF512J
87	RESISTOR, fixed, composition, 110,000 ohms, $\pm 5\%$ , 1/2 watt	R154	MP20106	Allen-Bradley	EB	2		RC20GF114J
88	Same as R115	R157						
89	RESISTOR, fixed, composition, $\pm 5\%$ , 1/2 watt, value selected on basis of equipment performance	R158	None	Allen-Bradley	EB	2		
90	RESISTOR, fixed, composition, $\pm 5\%$ , 1/2 watt, value selected on basis of equipment performance	R159	None	Allen-Bradley	EB	2		
91	RESISTOR, fixed, composition, 36,000 ohms, $\pm 5\%$ , 1/2 watt	R160	MP20180	Allen-Bradley	EB	3		RC20GF363J
92	Same as R115	R161						

Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

EQUIPMENT (NOMENCLATURE) MP10641 OF SYSTEM 1  
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SHEET 14 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
93	Same as R152	R164						
94	Same as R127	R165						
95	RESISTOR, fixed, composition, 24,000 ohms, $\pm 5\%$ , 1/2 watt	R166	MP20103	Allen-Bradley	EB	4		RC20GF243.
96	Same as R166	R167						
97	RESISTOR, fixed, composition, 4300 ohms, $\pm 5\%$ , 1/2 watt	R168	MP20218	Allen-Bradley	EB	2		RC20GF432.
98	RESISTOR, fixed, composition, $\pm 5\%$ , 1/2 watt, value selected on basis of equipment performance	R171	None	Allen-Bradley	EB	2		
99	RESISTOR, fixed, composition, 12 ohms, $\pm 5\%$ , 3 watt	R172	MP20079	Sprague	151E	4		
100	Same as R172	R173						
101	RESISTOR, fixed, composition, 43 ohms, $\pm 5\%$ , 3 watt	R174	MP20001	Sprague	151E	2		
102	TRANSFORMER, pulse. Overall dimensions 0.625 in. lg x 0.625 in. dia, 2 windings, primary to secondary turns ratio 1.8 to 1, 3000 ohm primary impedance	T101	MP58003	Magnecraft Electric Co	TV1125A	2		
103	ELECTRON TUBE, sub-miniature	V101	MP45002	Raytheon	CK6152	22		

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EQUIPMENT (NOMENCLATURE)		NAME OF CONTRACTOR		CONTRACT		PARTS DATA LIST		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
104	Same as V101	V102						
105	Same as V101	V103						
106	Same as V101	V104						
107	Same as V101	V105						
108	Same as V101	V106						
109	Same as V101	V107						
110	Same as V101	V108						
111	Same as V101	V109						
112	Same as V101	V110						
113	Same as V101	V111						

EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1

SHEET 16 OF SHEETS

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021 PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
114	MPI0737, COMPLETE ASSEMBLY. Over-all dimensions 15.25 in. lg x 12.31 in. wide x 3.5 in. high. MPI0737 engraved on nameplate. Consists of the following replaceable parts and assemblies:	UNIT B	MPI0737	Ramo-Wooldridge	R-W Dwg. 50401002	1 Req. Per System		
115	TAPE REEL AND RING GEAR ASSEMBLY. Over-all dimensions 10.50 in. dia x 0.50 in. wide. Consists of tape reel, ring gear, hub, and decal.		MPI0015	Ramo-Wooldridge	R-W Dwg. 50401508	2 Req. Per Complete Ass'y. (2/Sys.)		
116	TOP COVER ASSEMBLY. Made from sheet aluminum. Over-all dimensions 14.94 in. lg x 12.10 in. wide x 1.375 in. high. Wrinkle black finish.		MPI0069	Ramo-Wooldridge	R-W Dwg. 50401355-1	1 Req. Per Complete Ass'y. (1/Sys.)		
117	BOTTOM COVER ASSEMBLY. Over-all dimensions 14.94 in. lg x 12.10 in. wide x 1.906 in. high. Consists of the following replaceable parts and assemblies:		MPI0070	Ramo-Wooldridge	R-W Dwg. 50401002	1 Req. Per Complete Ass'y. (1/Sys.)		
118	COVER, Bottom. Made from sheet aluminum. Over-all dimensions 14.94 in. lg x 12.10 in. wide x 1.375 in. high, with a 0.328-in.-dia hole 3.54 in. from one side and 2.83 in. from one end. Wrinkle black finish.		MPI0236	Ramo-Wooldridge	R-W Dwg. 50401355-2	1 Req. Per Ass'y. (1/Sys.)		

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EQUIPMENT (NOMENCLATURE)

MPI0737 OF SYSTEM 1

SHEET 17 OF SHEETS

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
119	CASE, Desiccant. Made from sheet aluminum. Over-all dimensions 2.00 in. lg x 1.75 in. wide x 1.00 in. high.		MP10237	Ramo-Wooldridge	R-W Dwg. 50401450	1 Req. Per Ass'y. (1/Sys.)		
120	COVER, Desiccant Case. Made from sheet aluminum. Over-all dimensions 2.125 in. lg x 1.875 in. wide x 0.187 in. high. Blackened.		MP10238	Ramo-Wooldridge	R-W Dwg. 50401451	1 Req. Per Ass'y. (1/Sys.)		
121	BREATHING PLUG Assembly. Made from hexagonal bar aluminum. Over-all dimensions 0.625 in. across flats x 1.00 in. lg. With 0.125-in. thick hexagonal flange, and remaining length 0.311 in. dia, with 5/16-24 NF 2 thread. Flanged end drilled 0.140 in. dia to depth of 0.096 in. and counter-drilled 0.218 in. dia to depth of 0.064 in., with a 0.062-in. -dia hole drilled through axis of plug. Washer, filter, and O-ring staked in flanged end to provide water-tight seal.		MP10232	Ramo-Wooldridge	R-W Dwg. 50401452-1	1 Req. Per Complete Ass'y. (1/Sys.)		
122	HOUSING ASSEMBLY. Cast from magnesium. Over-all dimensions 15.25 in. lg x 12.00 in. wide x 1.875 in. high. Consists of a spider-frame, drilled and tapped mounting holes, press-fit bushing, cable harness, and the following replacement parts:		MP10650	Ramo-Wooldridge	R-W Dwg. 50401002	1 Req. Per Complete Ass'y. (1/Sys.)		

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EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1

SHEET 18 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
123	BRACKET, Plug. Made from sheet steel. Over-all dimensions 2.217 in. lg x 0.452 in wide x 0.560 in. high, with two 0.128-in.-dia holes and two 0.125-in.-dia countersunk holes. Blackened.		MP10005	Ramo-Wooldridge	R-W Dwg. 50401369	1 Req. Per Ass'y. (1/Sys.)		
124	BRACKET, Plug. Made from sheet steel. Over-all dimensions 1.186 in. lg x 0.452 in. wide x 0.560 in. high, with two 0.128-in.-dia holes, and two 0.125-in.-dia countersunk holes. Blackened.		MP10006	Ramo-Wooldridge	R-W Dwg. 50401370	1 Req. Per Ass'y. (1/Sys.)		
125	COVER, Plug. Made from sheet aluminum. Over-all dimensions 2.69 in. lg x 1.13 in. wide x 0.56 in. high with two 0.128-in.-dia holes. Blackened.		MP10007	Ramo-Wooldridge	R-W Dwg. 50401371	1 Req. Per Ass'y. (1/Sys.)		
126	COVER, Plug. Made from sheet aluminum. Over-all dimensions 1.66 in. lg x 1.13 in. wide x 0.56 in. high with two 0.128-in.-dia holes. Blackened.		MP10008	Ramo-Wooldridge	R-W Dwg. 50401372	1 Req. Per Ass'y. (1/Sys.)		

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
127	SPACER, Plug. Made from steel. Over-all dimensions 0.406 in. lg x 0.188 in. dia, with a 0.089-in. -dia-countersunk hole drilled and tapped through axis. Blackened.		MP10009	Ramo-Wooldridge	R-W Dwg. 50401373	4 Req. Per Ass'y. (4/Sys.)		
128	CONNECTOR, Printed-Circuit. Over-all dimensions 0.470 in. lg x 4.281 in. wide x 0.375 in. high. 28 contacts.	J703	MP10081	Cannon	DX-2842-100	1 Req. Per Ass'y. (1/Sys.)		
129	SCREW, Cover Mounting. A steel socket-head cap screw. Over-all dimensions 0.625 in. lg x 0.219 in. dia, with 0.375 in. of length 0.090 in. dia and 0.250 in. of length threaded 6/32. Blackened.		MP10082	Std. part modified Per Ramo-Wooldridge Dwg. 50401480	R-W Dwg. 50401480	12 Req. Per Ass'y. (12/Sys.)		
130	BRACKET, Cable Guide Mounting. Made from sheet aluminum. Over-all dimensions 2.75 in. lg x 0.81 in. wide x 1.12 in. high, with seven 0.116-in. -dia holes. Blackened.		MP10085	Ramo-Wooldridge	R-W Dwg. 50401506	1 Req. Per Ass'y. (1/Sys.)		
131	SPACER, Filter. Made from hexagonal bar aluminum. Over-all dimensions 0.62 in. lg x 0.250 in. across		MP10089	Ramo-Wooldridge	R-W Dwg. 50401466	2 Req. Per Ass'y. (2/Sys.)		

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
131	SPACER, Filter (Cont'd.) flats, with hexagonal end drilled 0.089 in. dia to depth of 0.218 in. and tapped to depth of 0.156 in., and opposite end 0.111 in. dia threaded for length of 0.248 in.		MP10089	Ramo-Wooldridge	R-W Dwg. 50401466	2 Req. Per Ass'y. (2/Sys.)		
132	PLATE, Filter Mounting. Made from sheet aluminum. Over-all dimensions 2.625 in. lg x 1.37 in. wide x 0.062 in. thick, with one 0.225-in. dia countersunk hole and two 0.128-in. dia holes.		MP10090	Ramo-Wooldridge	R-W Dwg. 50401491	1 Req. Per Ass'y. (1/Sys.)		
133	TERMINAL BOARD, Assembly. Made of laminated phenolic sheet. Over-all dimensions 1.50 in. lg x 1.00 in. wide x 0.375 in. high, with two 0.154-in. dia holes and 14 terminals.		MP10092	Ramo-Wooldridge	R-W Dwg. 50401471	1 Req. Per Complete Ass'y. (1/Sys.)		
134	BRACKET, Receptacle Mounting (right hand). Made from sheet aluminum. Over-all dimensions 0.684 in. lg x 0.628 in. high x 0.454 in. wide, with two 0.256-in. lg x 0.128-in. wide slotted mounting holes. Blackened.		MP10108	Ramo-Wooldridge	R-W Dwg. 50405016-1	1 Req. Per Ass'y. (1/Sys.)		



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SHEET 21 OF SHEETS

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
135	BRACKET, Receptacle Mounting (left hand). Made from sheet aluminum. Over-all dimensions 0.684 in. lg x 0.721 in. high x 0.454 in. wide, with two 0.256-in. lg x 0.128-in. wide slotted mounting holes. Blackened.		MP10109	Ramo-Wooldridge	R-W Dwg. 50405016-2	1 Req. Per Ass'y. (1/Sys.)		
136	RECEPTACLE. Over-all dimensions 0.859 in. lg x 1.219 in. wide x 0.375 in. high. 7 contacts.	J701	MP61003	Winchester	MRE 7S-G	1 Req. Per Ass'y. (1/Sys.)		
137	PLUG. Over-all dimensions 0.859 in. lg x 2.25 in. wide x 0.375 in. high. 21 contacts.	J702	MP62006	Winchester	MRE 21P-G	1 Req. Per Ass'y. (1/Sys.)		
138	COIL, toroid wound, plastic encapsulated, 1.250 in. dia x 0.562 in. thick, 50 millihenries.	L706	MP40021	Rayco	01112	1 Req. Per Ass'y. (1/Sys.)		
139	RESISTOR, fixed, composition, 3900 ohms, $\pm 5\%$ , 1/2 watt	R786	MP20189	Allen-Bradley	EB			RC20GF392.

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PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
140	TAPE GUIDE ASSEMBLY. Over-all dimensions 1.156 in. lg x 0.500 in. dia. Consists of the following replaceable parts:		MP10013	Ramo-Wooldridge	R-W Dwg. 50401360	1 Req. Per Complete Ass'y. (1/Sys.)		
141	SHAFT, Tape Guide Support. Over-all dimensions 1.156 in. lg x 0.250 in. dia. A steel shaft with 0.156 in. wide flange located 0.375 in. from one end. 0.375 in. length is 0.112 in. in dia threaded 4-40 NC-2. Other end of shaft is 0.1885 in. in dia with groove 0.017 in. wide x 0.0067 in. deep located 0.148 in. from end. End is slotted across diameter 0.046 in. wide x 0.062 in. deep.		MP10136	Ramo-Wooldridge	R-W Dwg. 50401361	1 Req. Per Ass'y. (1/Sys.)		
142	ROLLER, Tape Guide. Over-all dimensions 0.377 in. lg x 0.500 in. dia. A teflon cylinder, with 0.057 in. wide flanges on both ends. Center section of cylinder 0.375 in. dia. 0.1895-in.-dia hole drilled through axis.		MP10182	Ramo-Wooldridge	R-W Dwg. 50401347-2	1 Req. Per Ass'y. (1/Sys.)		
143	WASHER, Flat. Over-all dimensions 0.312 in. dia x 0.020 in. thick. A steel washer with a hole 0.196 in. in dia.		MP10215	Ramo-Wooldridge	R-W Dwg. 50401345-1	1 Req. Per Ass'y. (1/Sys.)		

EQUIPMENT (NOMENCLATURE)		MPI0737 OF SYSTEM 1						
NAME OF CONTRACTOR		Ramo-Wooldridge Corp CONTRACT				PARTS DATA LIST		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
144	WASHER, Flat. Over-all dimensions 0.375 in. dia x 0.047 in. thick. A laminated brass washer with a hole 0.193 in. in dia.		MP10202	Ramo-Wooldridge	R-W Dwg. 50401485-2	2 Req. Per Ass'y. (2/Sys.)		

EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1

SHEET 24 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp. CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
145	SUPPLY REEL DRIVE ASSEMBLY. Over-all dimensions (excluding electrical filter) 3.50 in. lg x 2.17 in. wide x 1.80 in. high. Consists of an electrical filter, motor, gear box, gear train, and gear-locking device. This is a precision assembly, and only the following parts are replaceable:	Includes B701 and Z701	MP10184	Ramo-Wooldridge	R-W Dwg. 50401234-1	1 Req. Per Complete Ass'y. (1/Sys.)		
146	BRACKET, Spring Retaining. Over-all dimensions 0.548 in. lg x 0.190 in. wide x 0.250 in. high. An L-shaped bracket made from 0.032 in. sheet steel, two 0.122 in. dia holes drilled through one face, and one 0.038 in. dia hole drilled through other face. Blackened.		MP10167	Ramo-Wooldridge	R-W Dwg. 50401423-1	1 Req. Per Ass'y. (1/Sys.)		
147	BRACKET, Adjusting Screw Mounting. Over-all dimensions 0.520 in. lg x 0.407 in. wide x 0.500 in. high. An L-shaped aluminum bracket, two 0.101 in. dia holes drilled through base, one 0.0204 in. dia hole drilled 0.188 in. deep and tapped 2-56 NC-2. Blackened. Bracket includes 0.146 in. dia nylon bushing.		MP10169	Ramo-Wooldridge	R-W Dwg. 50401430-1	1 Req. Per Ass'y. (1/Sys.)		
148	PIN, Guide. Over-all dimensions 0.440 in. lg x 0.1875 in. dia. A cylindrical steel		MP10305	Ramo-Wooldridge	R-W Dwg. 50401243	1 Req. Per Ass'y. (2/Sys.)		

EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1

SHEET 25 OF SHEETS

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
148	PIN, Guide (Cont'd.) pin with 0.060 in. wide hexagonal flange located 0.300 in. from one end, 0.300 in. end is 0.086 in. in dia, threaded 2-56 NC-2. Other end is 0.062 in. in dia, with groove 0.014 in. wide and 0.004 in. deep. Blackened.		MP10305	Ramo-Wooldridge	R-W Dwg. 50401243	1 Req. Per Ass'y. (2/Sys.)		
149	BRACKET, Supply Reel Drive Mounting. A skewed bracket made from magnesium. Over-all dimensions 1.437 in. lg x 1.312 in. wide x 0.633 in. high. Blackened.		MP10003	Ramo-Wooldridge	R-W Dwg. 50401308	1 Req. Per Ass'y. (1/Sys.)		
150	SPRING, Supply Reel Drive. A coil spring consisting of 13.5 coils of 0.014 in. dia music wire. Over-all dimensions 0.532 in. lg x 0.160 in. dia. Blackened.		MP10045	Ramo-Wooldridge	R-W Dwg. 50401307	1 Req. Per Ass'y. (2/Sys.)		
151	TAKEUP REEL DRIVE ASSEMBLY. Over-all dimensions (excluding electrical filter) 3.50 in. lg x 2.17 in. wide x 1.80 in. high. Consists of an electrical filter, motor, gear box, gear train, and a gear-locking device. This is a precision assembly and only the following parts are replaceable:	Includes B702 and Z702	MP10168	Ramo-Wooldridge	R-W Dwg. 50401234-2	1 Req. Per Complete Ass'y. (1/Sys.)		

EQUIPMENT (NOMENCLATURE) MP10737 OF SYSTEM 1

SHEET 26 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
152	BRACKET, Spring Retaining. Over-all dimensions 0.548 in. lg x 0.190 in. wide x 0.250 in. high. An L-shaped bracket made from 0.032 in. sheet steel, two 0.122 in. dia holes drilled through one face, and one 0.038 in. dia hole drilled through other face. Blackened.		MP10170	Ramo-Wooldridge	R-W Dwg. 50401423-2	1 Req. Per Ass'y. (1/Sys.)		
153	BRACKET, Adjusting Screw Mounting. Over-all dimensions 0.520 in. lg x 0.407 in. wide x 0.500 in. high. An L-shaped aluminum bracket, two 0.101 in. dia holes drilled through base, one 0.0204 in. dia hole drilled 0.188 in. deep and tapped 2-56 NC-2. Blackened. Bracket includes 0.146 in. dia nylon bushing.		MP10175	Ramo-Wooldridge	R-W Dwg. 50401430-2	1 Req. Per Ass'y. (1/Sys.)		
154	PIN, Guide. Over-all dimensions 0.440 in. lg x 0.1875 in. dia. A cylindrical steel pin with 0.060 in. wide hexagonal flange located 0.300 in. from one end, 0.300 in. end is 0.086 in. in dia, threaded 2-56 NC-2. Other end is 0.062 in. in dia, with groove 0.014 in. wide and 0.004 in. deep. Blackened.		MP10305	Ramo-Wooldridge	R-W Dwg. 50401243			

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SHEET 27 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
155	BRACKET, Takeup Reel Drive Mounting. A skewed bracket made from magnesium. Over-all dimensions 1.00 in. lg x 1.312 in. wide x 0.633 in. high. Blackened.		MP10004	Ramo-Wooldridge	R-W Dwg. 50401309	1 Req. Per Ass'y. (1/Sys.)		
156	SPRING, Takeup Reel Drive. A coil spring consisting of 13.5 coils of 0.014 in. dia music wire. Over-all dimensions of 0.532 in. lg x 0.160 in. dia. Blackened.		MP10045	Ramo-Wooldridge	R-W Dwg. 50401307			
157	FILTER, Electrical. Over-all dimensions 1.844 in. lg x 1.718 in. wide x 0.812 in. high. A sealed radio noise filter with two solder-lug terminals, and with two shielded leads 3.12 in. lg.	Z701 or Z702	MP68305	Sprague NJ711 (Modified per R-W Dwg. 50401259)	R-W Dwg. 50401259	1 Req. Per Ass'y. (2/Sys.)		

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
158	HEAD AND HEAD COVER ASSEMBLY. Over-all dimensions 4.87 in. lg x 2.50 in. wide x 1.75 in. high. Consists of the following replaceable parts and assemblies:		MP10087	Ramo-Wooldridge	R-W Dwg. 50401317	1 Req. Per Complete Ass'y. (1/Sys.)		
159	MAGNETIC HEAD AND MOUNTING PLATE, Assembly (erase). Over-all dimensions 1.250 in. lg x 1.125 in. wide x 0.573 in. high, with two 12-in. color-coded leads.		MP10040	Ramo-Wooldridge	R-W Dwg. 50401325-1	1 Req. Per Ass'y. (1/Sys.)		
160	MAGNETIC HEAD AND MOUNTING PLATE Assembly (record). Over-all dimensions 1.250 in. lg x 1.125 in. wide x 0.470 in. high, with six 12-in. color-coded leads.		MP10038	Ramo-Wooldridge	R-W Dwg. 50401325-2	1 Req. Per Ass'y. (1/Sys.)		
161	MAGNETIC HEAD AND MOUNTING PLATE Assembly (playback). Over-all dimensions 1.250 in. lg x 1.125 in. wide x 0.547 in. high, with six 6-in. micro-dot cables terminated with color-coded plugs.		MP10020	Ramo-Wooldridge	R-W Dwg. 50401325-3	1 Req. Per Ass'y. (1/Sys.)		
162	HEAD SHIELD Assembly. Formed from sheet metal. Over-all dimensions 0.862 in. lg x 0.60 in. wide x 0.646 in. high, with two 0-80, 0.250 in. filister head screws.		MP10021	Ramo-Wooldridge	R-W Dwg. 50401327	3 Req. Per Ass'y. (3/Sys.)		



EQUIPMENT (NOMENCLATURE) NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021 PARTS DATA LIST								
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
163	HEAD COVER Assembly. Cast from magnesium. Over-all dimensions 3.727 in. lg x 0.480 in. wide x 0.831 in. high.		MP10018	Ramo-Wooldridge	R-W Dwg. 50401320	1 Req. Per Ass'y. (1/Sys.)		
164	PLATE, Head Cover Mounting. Magnesium casting. Over-all dimensions 4.875 in. lg x 2.062 in. wide x 0.50 in. high. Blackened.		MP10017	Ramo-Wooldridge	R-W Dwg. 50401318	1 Req. Per Ass'y. (1/Sys.)		
165	LEVER ARM AND SHAFT Assembly. Consists of a lever arm, shaft and hub. Over-all dimensions, shaft and hub 1.50 in. lg, lever and hub 1.25 in. lg, hub 0.375 in. dia x 0.312 in. high.		MP10022	Ramo-Wooldridge	R-W Dwg. 50401329	1 Req. Per Ass'y. (1/Sys.)		
166	BLOCK, Lever and Plunger Mounting. Made from bar aluminum. Over-all dimensions 1.00 in. lg x 0.969 in. wide x 0.63 in. high, with two holes 0.140 in. dia drilled through, one hole 0.126 in. dia drilled through, and one hole 0.1567 in. dia drilled through.		MP10028	Ramo-Wooldridge	R-W Dwg. 50401336	1 Req. Per Ass'y. (1/Sys.)		
167	KNOB, Plunger Shaft. Made from bar steel. Over-all dimensions 0.312 in. lg x 0.46 in. maximum dia, 150		MP10030	Ramo-Wooldridge	R-W Dwg. 50401338	1 Req. Per Ass'y. (1/Sys.)		

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
167	KNOB, Plunger Shaft (Cont'd) taper, center drilled to 0.25 in. depth for 0.125 in. shaft, two 2-56 tapped holes 90° apart 0.125 in. from narrow end. Chrome plated. "PULL" is engraved on knob in black letters.		MP10030	Ramo-Wooldridge	R-W Dwg. 50401338	1 Req. Per Ass'y. (1/Sys.)		
168	SHAFT, Plunger. Machined from 0.250 in. dia steel rod. Over-all dimensions 1.422 in. lg x 0.203 in. dia, with 0.437 in. of length turned down to 0.124 in. dia, tapered on end. Adjacent 0.0125 in. length 0.203 in. dia, remaining 0.860 in. length, turned down to 0.124 in. dia and undercut to 0.084 in. dia, 0.093 in. from chamfered end. Blackened.		MP10027	Ramo-Wooldridge	R-W Dwg. 50401335	1 Req. Per Ass'y. (1/Sys.)		
169	SPRING, Plunger. A coil spring consisting of ten coils of 0.019-in. -dia music wire. Over-all dimensions 0.72 in. lg x 0.163 in. dia. Blackened.		MP10032	Ramo-Wooldridge	R-W Dwg. 50401340	1 Req. Per Ass'y. (1/Sys.)		
170	NUT, Retaining. Machined from 0.375 in. hex stock, aluminum or brass. Over-all dimensions 0.218 in. lg x 0.375 in. between faces. 0.138 in. of length turned down to 0.250 in. dia and threaded 1/4-28 NF-2.		MP10029	Ramo-Wooldridge	R-W Dwg. 50401337	1 Req. Per Ass'y. (1/Sys.)		

EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1								
NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021								
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
170	NUT, Retaining (Cont'd.) Undercut to 0.210 in. dia 0.138 in. from threaded end. Blackened.		MP10029	Ramo-Wooldridge	R-W Dwg. 50401337	1 Req. Per Ass'y. (1/Sys.)		
171	BRACKET, Tape Guide Assembly (playback). Formed from bar aluminum. Over-all dimensions 0.562 in. lg x 0.347 in. wide x 0.500 in. high, with two 0.130 in. x 0.67 in. mounting slots and two 0.062 dia sapphire rods cemented in place. Blackened.		MP10034	Ramo-Wooldridge	R-W Dwg. 50401363	1 Req. Per Ass'y. (1/Sys.)		
172	BRACKET, Tape Guide Assembly (erase). Formed from bar aluminum. Over-all dimensions 0.562 in. lg x 0.219 in. wide x 0.500 in. high, with two 0.130 in. x 0.067 in. mounting slots and two 0.062-in.-dia sapphire rods cemented in place. Blackened.		MP10035	Ramo-Wooldridge	R-W Dwg. 50401365	1 Req. Per Ass'y. (1/Sys.)		
173	SUPPORT, Tape Guide Bracket. Made from bar aluminum. Over-all dimensions 0.656 in. lg x 0.344 in. wide x 0.203 in. high, with four 0.067-in.-dia holes. Blackened.		MP10124	Ramo-Wooldridge	R-W Dwg. 50401362	1 Req. Per Ass'y. (1/Sys.)		

EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1

SHEET 32 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
174	NAMEPLATE, Cover Indicator. Made from black plastic laminate. Over-all dimensions 0.813 in. lg x 0.625 in. wide x 0.062 in. thick, with four 0.070-in.-dia countersunk mounting holes. Engraved with arrow and words "CLOSED" and "OPEN".		MP10036	Ramo-Wooldridge	R-W Dwg. 50401332	1 Req. Per Ass'y. (1/Sys.)		
175	SPRING, Head Adjusting Screw. A coil spring consisting of six coils of 0.033-in.-dia music wire. Over-all dimensions 0.444 in. lg x 0.187 in. dia. Blackened.		MP10033	Ramo-Wooldridge	R-W Dwg. 50401341	3 Req. Per Ass'y. (3/Sys.)		
176	PLATE, Guide. Made from sheet steel. Over-all dimensions 1.125 in. lg x 0.375 in. wide x 0.030 in. thick. Two 0.1259-in.-dia holes and 0.250 in. x 0.1259 in. slot drilled through centerline. Blackened.		MP10031	Ramo-Wooldridge	R-W Dwg. 50401339	1 Req. Per Ass'y. (1/Sys.)		
177	LINK, Cover Shaft. Made from bar steel. Rounded on one end and forked on the other end. Over-all dimensions 1.374 in. lg x 0.312 in. wide x 0.250 in. high. One hole 0.158 in. dia in one end, a notch 0.130 in. wide x 0.34 in. deep in the other end. Two slots 0.276 in. lg x 0.065 in. wide in forked end. Blackened.		MP10023	Ramo-Wooldridge	R-W Dwg. 50401331	1 Req. Per Ass'y. (1/Sys.)		

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
178	SHAFT, Shield Cover. Machined from steel rod. Over-all dimensions 2.250 in. lg x 0.188 in. dia. One end flatted to 0.124 in. thick x 0.312 in. lg with 0.0620-in.-dia hole drilled 0.125 in. from end, and 0.093-in.-dia hole drilled through 0.221 in. from opposite end. Both ends chamfered. Blackened.		MPI0026	Ramo-Wooldridge	R-W Dwg. 50401334	1 Req. Per Ass'y. (1/Sys.)		
179	PIN, Cover Shaft. Machined from steel rod. Over-all dimensions 0.343 in. lg x 0.125 in. dia. 0.031 in. of length is 0.125 in. dia. Remaining length is 0.0620 in. dia, chamfered at end, and undercut to 0.053 in. dia 0.012 in. from chamfered end. Blackened.		MPI0025	Ramo-Wooldridge	R-W Dwg. 50401333	1 Req. Per Ass'y. (1/Sys.)		
180	COAXIAL Connector Assembly. Over-all dimensions 1.670 in. lg x 0.937 in. wide x 0.562 in. high. Consists of a bracket made from sheet aluminum, and six mounted coax adapters. Bracket is blackened, and jacks are color coded.		MPI0107	Ramo-Wooldridge	R-W Dwg. 50401514	1 Req. Per Ass'y. (1/Sys.)		

EQUIPMENT (NOMENCLATURE)		MPI0737 OF SYSTEM 1				SHEET 34 OF SHEETS		
NAME OF CONTRACTOR		Ramo-Wooldridge Corp CONTRACT R-W Project 5021				PARTS DATA LIST		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
181	LOOP ARM ASSEMBLY :(supply reel). Over-all dimensions 4.062 in. lg x 1.750 in. wide x 1.938 in. high.		MPI0041	Ramo-Wooldridge	R-W Dwg. 50401229-1	1 Req. Per Complete Ass'y. (1/Sys.)		
182	LOOP ARM ASSEMBLY (takeup reel). Over-all dimensions 4.062 in. lg x 1.750 in. wide x 1.938 in. high.  The LOOP ARM ASSEMBLIES consist of the following replaceable parts and assemblies:		MPI0046	Ramo-Wooldridge	R-W Dwg. 50401229-2	1 Req. Per Complete Ass'y. (1/Sys.)		
183	SHAFT, Loop Arm Roller. Over-all dimensions 0.625 in. lg x 0.25 in. dia. A steel shaft with 0.021 in. wide flange located 0.146 in. from one end. 0.146 in. length is 0.086 in. in dia threaded 2-56 NC-2. Other end of shaft is 0.093 in. in dia with groove 0.019 in. wide x 0.076 in. deep located 0.054 in. from end.		MPI0126	Ramo-Wooldridge	R-W Dwg. 50401227	1 Req. Per Ass'y. (2/Sys.)		
184	WASHER, Flat. Over-all dimensions 0.250 in. dia x 0.047 in. thick. A laminated brass washer with a hole 0.096 in. in dia.		MPI0233	Ramo-Wooldridge	R-W Dwg. 50401485-1	2 Req. Per Ass'y. (4/Sys.)		

EQUIPMENT (NOMENCLATURE)							PARTS DATA LIST	
NAME OF CONTRACTOR							CONTRACT	
1							2	
3							4	
5							6	
7							8	
9							10	
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
185	ROLLER, Tape Guide. Over all dimensions 0.314 in. lg x 0.375 in. dia. A teflon cylinder with 0.031 in. wide flanges on both ends. Center section of cylinder 0.250 in. dia. 0.0937-in.-dia hole drilled through axis.		MP10113	Ramo-Wooldridge	R-W Dwg. 50401117	1 Req. Per Ass'y. (2/Sys.)		
186	SPRING, Tape Guide (supply reel). Formed from 0.010-in.-thick beryllium-copper strip. Over-all dimensions 1.375 in. lg x 0.437 in. wide x 0.312 in. high. An S-shaped spring 0.125 in. wide with a forked mounting surface. The forked mounting surface is located near one end of the spring, and is perpendicular to the plane of the spring.		MP10248	Ramo-Wooldridge	R-W Dwg. 50401524-1	1 Req. Per Ass'y. (1/Sys.)		
187	SPRING, Tape Guide (takeup reel). Similar in shape to the supply-reel tape-guide spring, but has a reversed-S configuration.		MP10242	Ramo-Wooldridge	R-W Dwg. 50401524-2	1 Req. Per Ass'y. (1/Sys.)		
188	ARM, Loop. Formed from sheet magnesium. Over-all dimensions 2.563 in. lg x 0.375 in. wide x 0.156 in. high, with one 0.120-in.-dia hole drilled through centerline 0.500 in. from one end, and one 0.093-in.-dia hole drilled through centerline 0.122 in. from opposite end.		MP10115	Ramo-Wooldridge	R-W Dwg. 50401118	1 Req. Per Ass'y. (2/Sys.)		

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
189	LOOP ARM SHAFT AND CONTACT ARM Assembly. Over-all dimensions 1.50 in. lg x 1.390 in. wide x 0.437 in. high. Consists of two parts which may be separated by removing a roll pin. If it becomes necessary to replace either of the parts, both parts must be replaced. The loop arm shaft is 1.390 in. lg, one end threaded 4-40 NC-2, adjacent 0.115 in. of shaft length flanged 0.437 in. dia, with remaining length of shaft 0.128 in. dia undercut to 0.120 in. dia for length of 0.632 in. The contact arm is 1.50 in. lg x 0.25 in. wide x 0.069 in. thick with 0.055-in.-thick cylindrical spacer mounted at the center of the arm. 0.1285-in.-dia hole through center of spacer and arm, two 0.144-in.-dia holes and one 0.031-in.-dia hole in one end of arm, and two 0.098-in.-dia holes in other end of arm.		MPI0243	Ramo-Wooldridge	R-W Dwg. 50401229	1 Req. Per Ass'y. (2/Sys.)		
190	BEARING AND SPACER. Made from aluminum bronze. Over-all dimensions 0.935 in. lg x 0.937 in. dia. A flanged cylinder with axial hole 0.129 in. in dia. Flange is 0.126 in. thick x 0.937 in. dia, located 0.125 in. from chamfered end of cylinder.		MPI0201	Ramo-Wooldridge	R-W Dwg. 50401231	1 Req. Per Ass'y. (2/Sys.)		



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PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
190	BEARING AND SPACER (Cont'd.) five tapped holes. Cylinder is 0.245 in. dia undercut to 0.218 in. dia in three places: both sides of flange, and 0.64 in. from flange.		MP10201	Ramo-Wooldridge	R-W Dwg. 50401231	1 Req. Per Ass'y. (2/Sys.)		
191	NUT, Anchor. Over-all dimensions 0.859 in. lg x 0.438 in. wide x 0.469 in. high. 6-32 stop nut with right-angle bracket. Bracket has two 0.098-in.-dia holes for mounting.		MP10246	Elastic Stop Nut Corp. of America	22NA7-68-62	1 Req. Per Ass'y. (2/Sys.)		
192	SMALL GEAR Assembly. Consists of a gear and pin. Over-all dimensions 0.130 in. lg x 0.562 in. dia.		MP10137	Boston Gear #3216 or American Stock Gear #S3216 (Modified Per R-W Dwg. 50401123)	R-W Dwg. 50401310	1 Req. Per Ass'y. (2/Sys.)		
193	SPRING, Counterbalance (supply reel). A right-hand-wound coil spring consisting of 23.5 coils of 0.025 in. dia music wire. Over-all dimensions 0.700 in. lg x 0.343 in. dia. Blackened.		MP10136	Ramo-Wooldridge	R-W Dwg. 50401121-1	1 Req. Per Ass'y. (1/Sys.)		

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SHEET 38 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
194	SPRING, Counterbalance (takeup reel). A left-hand-wound coil spring consisting of 23.5 coils of 0.025 in. dia music wire. Over-all dimensions 0.700 in. lg x 0.343 in. dia. Blackened.		MP10138	Ramo-Wooldridge	R-W Dwg. 50401121-2	1 Req. Per Ass'y. (1/Sys.)		
195	STRIP, Contact. Made from phosphor bronze sheet. Over-all dimensions 0.875 in. lg x 0.250 in. wide x 0.020 in. thick, with two holes 0.070 in. dia. Silver plated.		MP10123	Ramo-Wooldridge	R-W Dwg. 50401134	1 Req. Per Ass'y. (2/Sys.)		
196	STRIP, Insulation. Made from nylon laminated phenolic sheet. Over-all dimensions 0.875 in. lg x 0.250 in. wide x 0.031 in. thick, with two holes 0.070 in. dia.		MP10122	Ramo-Wooldridge	R-W Dwg. 50401133	1 Req. Per Ass'y. (2/Sys.)		
197	BUSHING, Insulating. Made from laminated plastic rod. Over-all dimensions 0.062 in. lg x 0.140 in. dia. One hole 0.067 in. dia drilled through center.		MP10198	Ramo-Wooldridge	R-W Dwg. 50401132	4 Req. Per Ass'y. (2/Sys.)		
198	PAD, Insulating. Made from nylon laminated phenolic sheet. Over-all dimensions 0.437 in. lg x 0.250 in. wide x 0.015 in. thick, with two 0.070-in.-dia holes.		MP10121	Ramo-Wooldridge	R-W Dwg. 50401131	1 Req. Per Ass'y. (2/Sys.)		

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SHEET 39 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
199	BRACKET AND BUSHING Assembly. Made from brass bar. Over-all dimensions 0.438 in. lg x 0.490 in. wide. Consists of a U-shaped bracket and cylindrical bushing. Silver plated.		MP10120	Ramo-Wooldridge	R-W Dwg. 50401128	1 Req. Per Ass'y. (2/Sys.)		
200	BRUSH, Loop Arm. A carbon and 75% metal composition electrical brush. Over-all dimensions 0.210 in. lg x 0.093 in. dia.		MP10043	Fletcher Electrical Specialty Co. or Equivalent Per R-W Dwg 50401226	R-W Dwg. 50401226	1 Req. Per Ass'y. (2/Sys.)		
201	SPRING Assembly. Over-all dimensions 0.436 in. lg x 0.397 in. wide x 0.188 in. high. A shoulder screw and spring assembly. The slotted head of the screw is 0.188 in. dia, shoulder is 0.084 in. dia, and screw is 0.060 in. dia threaded 0-80 NF-2. The spring has three coils with one end fixed to the head of the screw, and the other end extending 0.343 in. tangentially from the screw.		MP10132	Ramo-Wooldridge	R-W Dwg. 50401484	1 Req. Per Ass'y. (2/Sys.)		
202	CONTACT AND LEAF SPRING Assembly. A T-shaped leaf spring made from beryllium copper sheet. Over-all dimensions 1.19 in. lg x 0.50 in. wide x 0.015 in. thick, with two		MP10125	Ramo-Wooldridge	R-W Dwg. 50401232	1 Req. Per Ass'y. (2/Sys.)		

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
202	CONTACT AND LEAF SPRING Assembly. (Cont'd.) holes 0.140 in. dia. and with a contact of coin-silver.		MP10125	Ramo-Wooldridge	R-W Dwg. 50401232	1 Req. Per Complete Ass'y. (2/Sys.)		
203	STANDOFF. Made from nylon laminated phenolic sheet. Over-all dimensions 0.840 in. lg x 0.500 in. wide x 0.250 in. thick, with two holes 0.089 in. dia drilled through and tapped 4-40 NC-2.		MP10118	Ramo-Wooldridge	R-W Dwg. 50401224	1 Req. Per Ass'y. (2/Sys.)		
204	LARGE GEAR Assembly. Consists of a gear, shaft, and pin. Over-all dimensions 0.510 in. lg x 0.875 in. dia.		MP10117	Boston Gear #3226 or American Stock Gear #S3226 (Modified Per R-W Dwg. 50401124)	R-W Dwg. 50401184	1 Req. Per Ass'y. (2/Sys.)		
205	SPACER. Made from aluminum. Cylindrical shape. Over-all dimensions 0.063 in. lg x 0.170 in. dia. One hole 0.093 in. dia drilled through center of spacer. Blackened.		MP10244	Ramo-Wooldridge	R-W Dwg. 50401125	1 Req. Per Ass'y. (2/Sys.)		
206	BASEPLATE. Machined from plate magnesium. Over-all dimensions 4.062 in. lg x 1.375 in. wide x 0.250 in. high, with 0.312 in. of length on either end milled down to 0.126 in. high.		MP10127	Ramo-Wooldridge	R-W Dwg. 50401228	1 Req. Per Ass'y. (2/Sys.)		

Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

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SHEET 41 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
206	BASEPLATE (Cont'd.) and drilled and tapped for mounting.		MP10127	Ramo-Wooldridge	R-W Dwg. 50401228	1 Req. Per Ass'y. (2/Sys.)		
207	NUT, Plate. Made from magnesium strip. Over-all dimensions 1.03 in. lg x 0.25 in. wide x 0.125 in. thick, with two holes 0.089 in. dia drilled and tapped 4-40 NC-2		MP10131	Ramo-Wooldridge	R-W Dwg. 50401311	1 Req. Per Ass'y. (2/Sys.)		
208	BOARD, Mounting. Made from magnesium. Over-all dimensions 1.900 in. lg x 1.380 in. wide x 0.062 in. thick. One end of board is 1.380 in. wide with two slots 0.500 in. lg x 0.064 in. wide, two holes 0.128 in. dia and countersunk, and two holes 0.096 in. dia and countersunk. The opposite end is 0.660 in. wide with one hole 0.140 in. dia, and two holes 0.059 in. dia tapped 1-72 NF-2. Blackened.		MP10302	Ramo-Wooldridge	R-W Dwg. 50401312	1 Req. Per Ass'y. (2/Sys.)		
209	SPACER. Made from a brass rod. Over-all dimensions 0.078 in. lg x 0.150 in. dia. One hole 0.081 in. dia drilled through the center of spacer. Blackened.		MP10312	Ramo-Wooldridge	R-W Dwg. 50401315	2 Req. Per Ass'y. (4/Sys.)		

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
210	BOARD, Commutator. Made from glass cloth thermosetting laminated phenolic sheet, copper laminated on one side. Over-all dimensions 1.39 in. lg x 1.25 in. wide x 0.066 in. thick, with 15 terminals.		MP10185	Ramo-Wooldridge	R-W Dwg. 50401314	1 Req. Per Ass'y. (2/Sys.)		
211	BLOCK, Resistor. Made from magnesium. Rectangular block. Over-all dimensions 1.370 in. lg x 1.080 in. wide x 0.740 in. high. Block is 0.920 in. wide with 15 holes 0.234 in. dia drilled through. Two holes in one end of block 0.089 in. dia tapped 4-40 NC-2 and countersunk. Two mounting feet each 0.280 in. lg x 0.078 in. wide x 0.210 in. high with one 0.106-in. dia hole in each. Blackened.		MP10247	Ramo-Wooldridge	R-W Dwg. 50401313	1 Req. Per Ass'y. (2/Sys.)		
212	RESISTOR, fixed, composition, 22 ohms, $\pm 5\%$ , 1 watt	R833 through R845	MP20242	Allen-Bradley	GB	13 Req. Per Ass'y. (26/Sys.)		RC30GF220
213	Same as R833	R846 through R858						

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SHEET 43 OF SHEETS

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021 PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
214	JAM ROLLER ASSEMBLY. Over-all dimensions 1.83 in. lg x 1.00 in. wide x 1.54 in. high. Consists of the following replaceable parts:		MP10134	Ramo-Wooldridge	R-W Dwg. 50401002	1 Req. Per Complete Ass'y. (1/Sys.)		
215	SHAFT, Roller. Made from steel. Over-all dimensions 1.06 in. lg x 0.37 in. dia, with one end 0.37 in. in dia for a length of 0.293 in., the remainder of the shaft is 0.667 in. lg x 0.250 in. dia with a groove 0.031 in. wide x 0.0092 in. deep x 0.031 in. from one end, and with two intersecting 0.06 in. dia holes at the opposite end, one hole drilled axially to a depth of 0.75 in., and the other hole drilled through diametrically 0.75 in. from the end. Chrome plated.		MP10066	Ramo-Wooldridge	R-W Dwg. 50401415	1 Req. Per Ass'y. (1/Sys.)		
216	ROLLER, Jam. Made from an aluminum cylinder with a molded rubber rim. Over-all dimensions 0.500 in. lg x 1.000 in. dia, with one hole 0.251 in. dia through axis of cylinder.		MP10065	Ramo-Wooldridge	R-W Dwg. 50401412	1 Req. Per Ass'y. (1/Sys.)		

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SHEET 44 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021 PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
217	SHAFT, Roller Arm. Made from steel. Over-all dimensions 1.540 in. lg x 0.500 in. dia, with a 0.06 in. wide x 0.500 in. dia. flange at one end of shaft, remainder of shaft is 0.2515 in. dia for a length of 1.148 in., 0.187 in. dia for a length of 0.080 in. and opposite end of shaft is 0.138 in. dia, threaded #6-32 NC-2 for a minimum length of 0.218 in. Flange of shaft is chrome plated and shaft is blackened.		MP10064	Ramo-Wooldridge	R-W Dwg. 50401411	1 Req. Per Ass'y. (1/Sys.)		
218	ARM, Roller. Made from sheet steel and bar steel. Over-all dimensions 1.500 in. lg x 0.500 in. wide x 0.625 in. high, U-shaped with one hole 0.375 in. dia drilled through, one hole 0.219 in. dia drilled through, and one elliptical hole 0.245 in. lg x 0.120 in. wide. Blackened.		MP10062	Ramo-Wooldridge	R-W Dwg. 50401406	1 Req. Per Ass'y. (1/Sys.)		
219	SPRING, Load. A coil spring consisting of 10 coils of 0.026 in. dia music wire. Over-all dimensions 0.695 in. lg x 0.226 in. dia. Blackened.		MP10056	Ramo-Wooldridge	R-W Dwg. 50401439	1 Req. Per Ass'y. (1/Sys.)		



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SHEET 45 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
220	BRACKET, Load Spring. Made from sheet steel. Over-all dimensions 0.591 in. lg x 0.444 in. wide x 0.062 in. thick, V-Shaped bracket, rounded on one end to a radius of 0.093 in., with one hole 0.062 in. dia drilled through, opposite end rounded to a radius of 0.150 in. with one hole 0.144 in. dia drilled through.. Blackened.		MP10054	Ramo-Wooldridge	R-W Dwg. 50401440	1 Req. Per Ass'y. (1/Sys.)		
221	SPACER, Load Spring Bracket. Made from aluminum. Over-all dimensions 0.406 in. lg x 0.312 in. dia, with a hole 0.144 in. dia drilled through axis of spacer. Blackened.		MP10055	Ramo-Wooldridge	R-W Dwg. 50401441	1 Req. Per Ass'y. (1/Sys.)		
222	ARM, Load Spring. Made from sheet steel. Over-all dimensions 0.905 in. lg x 0.374 in. wide x 0.062 in. thick, V-shaped with one end rounded to a radius of 0.187 in., and with a slotted hole 0.1875 in. lg x 0.145 in. wide, opposite end rounded to a radius of 0.093 in., with a hole 0.093 in. dia drilled through. Blackened.		MP10063	Ramo-Wooldridge	R-W Dwg. 50401410	1 Req. Per Ass'y. (1/Sys.)		

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SHEET 46 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp. CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
223	SPACER, Spring Catch. Made from sheet aluminum. Over-all dimensions 0.25 in. lg x 0.25 in. wide x 0.062 in. thick, with two 0.067 in. dia holes drilled through and countersunk. Blackened.		MPI0068	Ramo-Wooldridge	R-W Dwg. 50401429	2 Req. Per Ass'y. (2/Sys.)		
224	SPRING, Catch. Made from strip steel. Over-all dimensions 1.00 in. lg x 0.25 in. wide x 0.060 in. thick, with four 0.067 in dia holes drilled through. Blackened.		MPI0067	Ramo-Wooldridge	R-W Dwg. 50401416	1 Req. Per Ass'y. (1/Sys.)		

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
225	CAPSTAN AND CAPSTAN-DRIVE ASSEMBLY. Consists of the following replaceable parts:		MP10301	Ramo-Wooldridge	R-W Dwg. 50401002	1 Req. Per Complete Ass'y. (1/Sys.)		
226	SHIELD, Capstan. Aluminum casting. Over-all dimensions 1.375 in. lg x 0.968 in. wide x 0.937 in. high. A flanged truncated cone with two holes 0.154 in. dia drilled through flange, and one hole 0.312 in. dia through top of cone. Blackened.		MP10051	Ramo-Wooldridge	R-W Dwg. 50401379	1 Req. Per Ass'y. (1/Sys.)		
227	WASHER, Felt. Made from sheet felt. Over-all dimensions 0.620 in. dia x 0.060 in. thick. One hole 0.150 in. dia through center.		MP10052	Ramo-Wooldridge	R-W Dwg. 50401383	1 Req. Per Ass'y. (1/Sys.)		
228	WASHER, Flat. Made from aluminum. Over-all dimensions 0.590 in. dia x 0.020 in. thick. One hole 0.250 in. dia through center. Blackened.		MP10053	Ramo-Wooldridge	R-W Dwg. 50401384	1 Req. Per Ass'y. (1/Sys.)		
229	CAPSTAN SHAFT AND DRIVE WHEEL Assembly. Over-all dimensions 2.268 in. lg x 3.770 in. dia. Consists of a capstan shaft, flanged support bearing, and drive wheel. Rim of drive wheel has rubber surface.		MP10050	Ramo-Wooldridge	R-W Dwg. 50401376	1 Req. Per Ass'y. (1/Sys.)		

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EQUIPMENT (NOMENCLATURE)		MPI0737 OF SYSTEM 1							
NAME OF CONTRACTOR		Ramo-Wooldridge Corp		CONTRACT		R-W Project 5021		PARTS DATA LIST	
1	2	3	4	5	6	7	8	9	
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QJAN. PER EQUIPMENT	JAN TYPE	
230	DISC, Strobe. Made from aluminum foil. Over-all dimensions 3.70 in. dia x 0.003 in. thick with a hole 1.500 in. dia through the center. Disc has stroboscopic pattern on one side and has pressure-sensative adhesive on other side.		MP10304	Ramo-Wooldridge	R-W Dwg. 50401535	1 Req. Per Ass'y. (1/Sys.)			

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NAME OF CONTRACTOR Ramo Wooldridge Corp. Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
231	CAPSTAN-MOTOR MOUNTING ASSEMBLY. Over-all dimensions 1.844 in. lg x 1.875 in. wide x 1.016 in. thick. Consists of the following replaceable parts:		MP10049	Ramo-Wooldridge	R-W Dwg. 50401436	1 Req. Per Complete Ass'y. (1/Sys.)		
232	SFRING. Made from 0.034 in. dia music wire. Over-all dimensions 1.312 in. lg x 0.095 in. wide x 0.250 in. high. A pivct 0.250 in. lg x 0.095 in. dia is soldered in the center of spring. One end of spring is offset 0.13 in. from centerline of spring. Blackened.		MP10155	Ramo-Wooldridge	R-W Dwg. 50401402	1 Req. Per Ass'y. (1/Sys.)		
233	SCREW, Set (reworked). Allen head set screw. Over-all dimensions 0.625 in. lg x 0.138 in. dia. End opposite Allen socket is 0.0628 in. in dia for length of 0.032 in., adjacent length is 0.090 in. in dia for length of 0.061 in. Remainder of length is 0.138 in. in dia, threaded 6-32 NC-2. Blackened.		MP10110	AN565A6H-10 (Modified Per R-W Dwg. 50401404)	R-W Dwg. 50401404	2 Req. Per Ass'y. (2/Sys.)		
234	STUD, Double Mounting. Made from steel. Over-all dimensions 0.812 in. lg x 0.250 in. wide x 0.525 in. high. Consists of a plate 0.812 in. lg x 0.250 in. wide x 0.030 in. thick with one		MP10647	Ramo-Wooldridge	R-W Dwg. 50401435	1 Req. Per Ass'y. (1/Sys.)		

EQUIPMENT (NOMENCLATURE)

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SHEET 50 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT

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PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
234	STUD, Double Mounting. (Cont'd.) hole 0.098 in. dia drilled through. Plate mounts two identical studs. Each stud has a flanged end 0.250 in. dia x 0.040 in. thick, 0.159 in. dia for a length of 0.218 in. and threaded 6-32 NC-2 for a length of 0.275 in. Blackened.		MP10647	Ramo-Wooldridge	R-W Dwg. 50401435	1 Req. Per Ass'y. (1/Sys.)		
235	STUD, Single Mounting. Made from steel. Over-all dimensions 0.625 in. lg x 0.312 in. wide x 0.525 in. high. Consists of a plate 0.625 in. lg x 0.312 in. wide x 0.030 in. thick with one hole 0.098 in. dia drilled through. Plate mounts one stud with flanged end 0.250 in. dia x 0.040 in. thick, 0.159 in. dia for a length of 0.218 in. and threaded 6-32 NC-2 for a length of 0.275 in. Blackened.		MP10649	Ramo-Wooldridge	R-W Dwg. 50401434	1 Req. Per Ass'y. (1/Sys.)		
236	BRACKET, Spring Adjusting. Made from steel. Over-all dimensions 0.750 in. lg x 0.375 in. wide x 0.437 in. high. Rectangular flange and cylinder. Flange is 0.750 in. lg x 0.375 in. wide x 0.040 in. thick with two holes 0.120 in. dia drilled through in opposite corners. Cylinder is		MP10103	Ramo-Wooldridge	R-W Dwg. 50401399	1 Req. Per Ass'y. (1/Sys.)		

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
236	BRACKET, Spring Adjusting. (Cont'd.) 0.250 in. O.D. with a 0.156 in. I.D. drilled through and tapped 8-32 NC-2 thread. End of cylinder has four equally spaced radial slots 0.046 in. wide x 0.397 in. deep. Blackened.		MP10103	Ramo-Wooldridge	R-W Dwg. 50401399	1 Req. Per Ass'y. (1/Sys.)		
237	BLOCK, Support Spring. Made from aluminum. Over-all dimensions 0.750 in. lg x 0.250 in. wide x 0.187 in. high. Rectangular strip with four bosses. Strip is 0.750 in. lg x 0.250 in. wide x 0.031 in. thick with two holes 0.120 in. dia drilled through. Bosses are 0.075 in. square x 0.156 in. high spaced symmetrically about the center. Blackened.		MP10111	Ramo-Wooldridge	R-W Dwg. 50401400	1 Req. Per Ass'y. (1/Sys.)		
238	STOP, Spring. Made from sheet steel. Over-all dimensions 0.812 in. lg x 0.750 in. wide x 0.015 in. thick. T-shape. Arms of stop are 0.250 in. wide and extend 0.750 in. over all, with a 0.116-in.-dia hole 0.125 in. from each end. Body of stop is 0.480 in. lg x 0.375 in. wide, with tongue extending 0.082 in. along centerline. Tongue is 0.095 in. wide. Blackened.		MP10112	Ramo-Wooldridge	R-W Dwg. 50401403	1 Req. Per Ass'y. (1/Sys.)		

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EQUIPMENT (NOMENCLATURE)		NAME OF CONTRACTOR		CONTRACT		PARTS DATA LIST		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
239	BRACKET, Motor Support. Made from aluminum. U-shaped bracket. Over-all dimensions 1.815 in. lg x 1.875 in. wide x 0.218 in. thick. One hole 0.186 in. dia, two holes 0.070 in. dia tapped 2-56 NC-2 thread, three holes 0.169 in. dia, and four holes 0.120 in. dia countersunk, all holes drilled through. Blackened.		MP10643	Ramo-Wooldridge	R-W Dwg. 50401390	1 Req. Per Ass'y. (1/Sys.)		



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PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
240	CAPSTAN MOTOR AND FLY-WHEEL ASSEMBLY. Over-all dimensions 2.968 in. lg x 2.094 in. wide x 2.594 in. high. Consists of the following replaceable parts and assemblies:		MP10048	Ramo-Wooldridge	R-W Dwg. 50401389	1 Req. Per Complete Ass'y. (1/Sys.)		
241	CLAMP, Spring. Made from steel. Semi-circular clamp. Over-all dimensions 0.765 in. lg x 0.378 in. wide x 0.130 in. high. One hole tapped 0-80 NF-2, 0.320 in. from center of radius of clamp. One hole 0.075 in. dia counterbored 0.100 in. dia in opposite end 0.320 in. from center of radius of clamp.		MP10693	Ramo-Wooldridge	R-W Dwg. 50401488	4 Req. Per Ass'y. (4/Sys.)		
242	MOTOR, Assembly. Over-all dimensions exclusive of electrical filter 2.901 in. lg x 2.094 in. dia. Consists of motor and electrical filter, stationary shaft, fly wheel, and spacer.	B703	MP10694	Ramo-Wooldridge	R-W Dwg. 50401389	1 Req. Per Ass'y. (1/Sys.)		
243	COLLAR. Made from stainless steel. Cylindrical shape. Over-all dimensions 0.320 in. lg x 0.500 in. dia. One end has I. D. of 0.375 for length of 0.046, and remaining I. D. is 0.1252 in. One end of collar is threaded (32 threads per inch) for a length of 0.130 in. A radial hole through threaded area is tapped 2-56 NC-2.		MP10698	Ramo-Wooldridge	R-W Dwg. 50401487	1 Req. Per Ass'y. (1/Sys.)		

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PARTS DATA

1	2	3	4	5	6	7	8
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT
244	SPRING. Made from 0.018 in. dia music wire (15 coils). Over-all dimensions 0.49 in. lg x 0.515 in. dia. Blackened.		MP10189	Ramo-Wooldridge	R-W Dwg. 50401489	1 Req. Per Ass'y. (1/Sys.)	
245	SHIELD, Top Motor. Made from mu-metal. Cylindrical shape. Over-all dimensions 0.907 in. lg x 1.030 in. dia. I.D. of 0.990 in. One end closed, one end open. Two diametrically opposed holes 0.062 in. in dia drilled 0.09 in. from open end. Open end of cylinder has notch 0.41 in. lg x 0.22 in. wide. One notch 0.41 in. lg x 0.22 in. wide in from open end.		MP10695	Ramo-Wooldridge	R-W Dwg. 50401395	1 Req. Per Ass'y. (1/Sys.)	
246	SHIELD, Bottom Motor. Made from mu-metal. Cylindrical shape. Over-all dimensions 1.455 in. lg x 1.367 in. dia. Top of shield has two holes 0.099 in. dia and one hole 0.437 in. dia. Shield is 1.015 in. dia for a length of 1.09 in., remaining length of shield, 0.37 in., is 1.055 in. dia. Two holes 0.076 in. dia for mounting clamp, drilled through shield 0.16 in. and 0.30 in. from open end.		MP10696	Ramo-Wooldridge	R-W Dwg. 50401396	1 Req. Per Ass'y. (1/Sys.)	

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PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
247	CLAMP, Cable. A two-piece aluminum clamp. Over-all dimensions 0.56 in. lg x 0.34 in. wide x 0.156 in. high. Curved mounting surface has two 0.076-in.-dia mounting holes. Cap of cable clamp is held by two 0-80 NF-2 screws.		MPI0701	Ramo-Wooldridge	R-W Dwg. 50401512	1 Req. Per Ass'y. (1/Sys.)		
248	FILTER, Electrical. Rectangular shape. Over-all dimensions 2.546 in. lg x 1.000 in. wide x 0.750 in. high. Two leads 9.75 in. lg soldered to terminals.	Z703	MPI0104	Ramo-Wooldridge	R-W Dwg. 50401495	1 Req. Per Ass'y. (1/Sys.)		

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
249	TRANSITION ASSEMBLY. Over all dimensions 2.75 in. lg x 1.18 in. wide x 3.88 in. high. Consists of the following replaceable parts and assemblies:		MP10016	Ramo-Wooldridge	R-W Dwg. 50401352	1 Req. Per Complete Ass'y. (1/Sys.)		
250	PLATE, Mounting. Made from magnesium. Over-all dimensions 2.75 in. lg x 1.18 in. wide x 0.562 in. high. One end 1.18 in. lg x 0.50 in. wide x 0.094 in. thick, with two 0.116-in.-dia holes and one 0.116-in.-dia chamfered hole. A 90° V-shaped offset with a 0.189-in. dia hole, and remaining length 0.50 in. wide x 0.094 in. thick, with one 0.144-in. dia chamfered hole and one 0.116-in.-dia hole. Blackened.		MP10157	Ramo-Wooldridge	R-W Dwg. 50401348	1 Req. Per Ass'y. (1/Sys.)		
251	SUPPORT, Upper-Transition Guide. Made from steel. Over-all dimensions 1.625 in. lg x 0.250 in. dia. One end 0.138 in. dia threaded 6-32 NC-2 for length of 0.287 in. One end 0.123 in. dia chamfered with 0.021-in. deep x 0.012-in.-wide groove 0.160 in. from end. 0.625 in. of length 0.250 in. dia. Blackened.		MP10096	Ramo-Wooldridge	R-W Dwg. 50401343	1 Req. Per Ass'y. (1/Sys.)		

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE GR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
252	SUPPORT, Lower-Transition Guide. Made from steel. Over-all dimensions 1.00 in. lg x 0.250 in. dia. One end 0.112 in. dia threaded 4-40 NC-2 for length of 0.218 in. One end 0.189 in. dia, notched 0.062 in. deep x 0.046 in. wide across diameter, with 0.014-in.-deep x 0.017-in.-wide groove 0.166 in. from end. A 0.250-in.-dia x 0.062-in.-wide shoulder 0.312 in. from one end. Blackened.		MP10094	Ramo-Wooldridge	R-W Dwg. 50401344	1 Req. Per Ass'y. (1/Sys.)		
253	TRANSITION SUPPORT AND SLEEVE Assembly. Over-all dimensions 2.513 in. lg x 0.312 in. dia. Consists of a steel support and teflon rod sleeve. One end 0.138 in. dia threaded 6-32 NC-2. A 0.312-in.-dia x 0.188-in.-lg shoulder with a 0.062-in.-dia hole drilled through dia. 1.58 in. of length 0.188 in. dia.		MP10085	Ramo-Wooldridge	R-W Dwg. 50401351	1 Req. Per Ass'y. (1/Sys.)		
254	GUIDE, Lower-Transition. Made from teflon. Over-all dimensions 0.50 in. dia x 0.377 in. lg x A 0.50-in.-dia x 0.062-in.-wide flange at each end. 0.375 in. dia between flanges. A 0.189-in. dia hole drilled through dia. and chamfered both ends.		MP10101	Ramo-Wooldridge	R-W Dwg. 50401347-1	1 Req. Per Ass'y. (1/Sys.)		

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PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
255	GUIDE, Upper-Transition. Made from teflon. Over-all dimensions 0.375 in. dia x 0.377 in. wide. A 0.375-in. dia x 0.062-in. wide flange at each end. 0.250 in. dia between flanges. A 0.129-in. dia hole drilled through axis and chamfered both ends.		MP10095	Ramo-Wooldridge	R-W Dwg. 50401342	1 Req. Per Ass'y. (1/Sys.)		
256	WASHER, Lower-Transition. Made from brass laminate. Over-all dimensions 0.375 in. dia x 0.047 in. thick. A 0.193 in. dia hole through axis.		MP10093	Ramo-Wooldridge	R-W Dwg. 50401485-2	2 Req. Per Ass'y. (2/Sys.)		
257	WASHER, Upper-Transition. Made from brass laminate. Over-all dimensions 0.312 in. dia x 0.047 in. thick. A 0.136-in. dia hole through axis.		MP10185	Ramo-Wooldridge	R-W Dwg. 50401485-3	2 Req. Per Ass'y. (2/Sys.)		
258	WASHER, Lower-Transition. Made from steel. Over-all dimensions 0.312 in. dia x 0.02 in. thick. A 0.196-in. dia hole through axis. Blackened.		MP10132	Ramo-Wooldridge	R-W Dwg. 50401345-1	1 Req. Per Ass'y. (1/Sys.)		
259	WASHER, Upper-Transition. Made from steel. Over-all dimensions 0.312 in. dia x 0.02 in. thick. A 0.136-in. dia hole through axis. Blackened.		MP10014	Ramo-Wooldridge	R-W Dwg. 50401345-2	1 Req. Per Ass'y. (1/Sys.)		

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## PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
260	REEL SUPPORT Assembly. Over-all dimensions 2.00 in. lg x 0.750 in. dia. Consists of the following replaceable parts:		MP10130	Ramo-Wooldridge	Items 2, 3, and 13 of R-W Dwg. 50401002	1 Req. Per Complete Ass'y. (1/Sys.)		
261	BUSHING, Reel. Made from steel. Over-all dimensions 0.563 in. lg x 0.625 in. dia, with a 0.625 in. dia x 0.097 in. wide flange at one end and remainder of length 0.374 in. in dia, and with a 0.250 in. dia hole through axis of bushing. Chrome plated.		MP10071	Ramo-Wooldridge	R-W Dwg. 50401292	1 Req. Per Ass'y. (1/Sys.)		
262	SUPPORT, Reel. Made from steel. Over-all dimensions 2.000 in. lg x 0.625 in. dia, with one end 0.3125 in. dia threaded 0.250-20 NC-3 for a length of 0.240 in., with a 0.152 in. lg x 0.675 in. dia flange flattened to a width of 0.562 in. and located 0.531 in. from threaded end, and with opposite end 0.2495 in. in dia, with a 0.017 in. deep groove located 0.217 in. from the end. Chrome plated.		MP10072	Ramo-Wooldridge	R-W Dwg. 50401293	1 Req. Per Ass'y. (1/Sys.)		
263	RETAINER, Reel. Made from aluminum. Over-all dimensions 0.312 in. lg x 0.750 in. dia, with a 0.750 in. dia x 0.060 in. wide flange at one end and remainder of length 0.437 in. from the		MP10012	Ramo-Wooldridge	R-W Dwg. 50401291	1 Req. Per Ass'y. (1/Sys.)		

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
263	RETAINER, Reel (Cont'd.) and with a 0.251 in. dia hole drilled through axis of retainer. Blackened.		MP10012	Ramo-Wooldridge	R-W Dwg. 50401291	1 Req. Per Ass'y. (1/Sys.)		
264	CLIP, Spring. Made from 0.033 in. music wire. Overall dimensions 0.625 in. lg x 0.284 in. wide x 0.033 in. thick. Blackened.		MP10133	Ramo-Wooldridge	R-W Dwg. 50401144	1 Req. Per Ass'y. (1/Sys.)		



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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
265	REEL GUIDE ASSEMBLY. Over-all dimensions 1.25 in. lg x 0.656 in. wide x 1.813 in. high. Consists of the following replaceable parts and assemblies:		MPI0651	Ramo-Wooldridge	R-W Dwg. 50401537	4 Req. Per Complete Ass'y. (4/Sys.)		
266	BRACKET, Spool. Made from aluminum. Over-all dimensions 1.06 in. lg x 0.312 in. wide x 1.167 in. high. One 0.188-in.-dia hole drilled through and chamfered at one end, two colinear 0.126-in.-dia holes drilled through, one 0.050-in.-dia hole in the upper bracket arm and one 0.126-in.-dia hole in the lower bracket arm. Blackened.		MPI0705	Ramo-Wooldridge	R-W Dwg. 50401525	1 Req. Per Ass'y. (4/Sys.)		
267	SHAFT, Bracket. Made from steel. Over-all dimensions 1.732 in. lg x 0.312 in. dia. One end threaded 6-32 NC-2, a 0.010-in.-wide x 0.312-in.-dia flange 0.462 in. from threaded end, and remaining length 0.186 in. dia Blackened.		MPI0700	Ramo-Wooldridge	R-W Dwg. 50401527	1 Req. Per Ass'y. (4/Sys.)		
268	ROLLER Assembly. Made from nylon rod. Over-all dimensions 0.476 in. lg x 0.625 in. dia. One end 0.500 in. dia for length of 0.169 in. a 0.041-in.-lg x 0.625-in.-dia flange at opposite end.		MPI0697	Ramo-Wooldridge	R-W Dwg. 50401526	2 Req. Per Ass'y. (8/Sys.)		

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
268	ROLLER Assembly (Cont'd.) 0.315-in. -dia hole through axis, and a ball-bearing assembly pressed into each end.		MP10697	Ramo-Wooldridge	R-W Dwg. 50401526	2 Req. Per Ass'y. (8/Sys.)		
269	SHAFT, Roller. Made from steel. Over-all dimensions 1.343 in. lg x 0.125 in. dia. One end threaded 2-56 NC-2A, one end slotted 0.030 in. wide x 0.050 in deep, and 1.156 in. of length 0.125 in. dia. Blackened.		MP10707	Ramo-Wooldridge	R-W Dwg. 50401531	1 Req. Per Ass'y. (4/Sys.)		
270	CENTER SPACER, Spool. Made from steel. Over-all dimensions 0.250 in. dia x 0.082 in. thick. A 0.180-in. dia nub, and a 0.126-in. -dia hole drilled through axis. Blackened.		MP10709	Ramo-Wooldridge	R-W Dwg. 50401528	1 Req. Per Ass'y. (4/Sys.)		
271	END SPACER, Spool. Made from steel. Over-all dimensions 0.180-in. dia x 0.017 in. thick. A 0.126-in. -dia hole drilled through axis. Blackened.		MP10703	Ramo-Wooldridge	R-W Dwg. 50401529	2 Req. Per Ass'y. (8/Sys.)		
272	PLUNGER. Made from steel. Over-all dimensions 1.290 in. lg x 0.124 in. dia, rounded edge at one end, and undercut to 0.093-in. dia 0.03 in. from other end. Chrome plated.		MP10657	Ramo-Wooldridge	R-W Dwg. 50401538	1 Req. Per Ass'y. (4/Sys.)		

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
273	SPRING, Plunger Return. A coil spring consisting of 18 coils of 0.012-in.-dia music wire. Over-all dimensions 0.60 in. lg x 0.180 in. dia. Blackened.		MP10655	Ramo-Wooldridge	R-W Dwg. 50401540	1 Req. Per Ass'y. (4/Sys.)		
274	REEL GUIDE MOUNTING PLATE AND RETAINER SPRING ASSEMBLY (Type I). Over-all dimensions 0.850 in. lg x 0.640 in. wide x 0.940 in. high. Consists of the following replaceable parts and assemblies:		MP10712	Ramo-Wooldridge	R-W Dwg. 50401002	3 Req. Per Complete Ass'y. (3/Sys.)		
275	MOUNTING PLATE Assembly. Over-all dimensions 0.875 in. lg x 0.640 in. wide x 0.940 in. high. Consists of a plate, spring post, a reel-stop pin, and a plate-mounting pin. Blackened.		MP10704	Ramo-Wooldridge	R-W Dwg. 50401533-1	1 Req. Per Ass'y. (3/Sys.)		
276	SPRING. A coil spring consisting of 7 coils of 0.029-in.-dia music wire. One end coil extended tangentially 0.50 in., and one end coil extended tangentially 0.70 in. at angle of 80° with other end. Blackened.		MP10652	Ramo-Wooldridge	R-W Dwg. 50401536-1	1 Req. Per Ass'y. (3/Sys.)		

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PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
277	REEL GUIDE MOUNTING PLATE AND RETAINER SPRING ASSEMBLY (Type 2). Over-all dimensions 0.850 in. lg x 0.640 in. wide x 0.940 in. high. Consists of the following replaceable parts and assemblies:		MP10713	Ramo-Wooldridge	R-W Dwg. 50401002	1 Req. Per Complete Ass'y. (1/Sys.)		
278	MOUNTING PLATE Assembly. Over-all dimensions 0.875 in. lg x 0.640 in. wide x 0.940 in. high. Consists of a plate, spring post, a reel-stop pin, and a plate-mounting pin. Blackened.		MP10706	Ramo-Wooldridge	R-W Dwg. 50401533-2	1 Req. Per Ass'y. (1/Sys.)		
279	SPRING. A coil spring consisting of 7 coils of 0.029-in. dia. music wire. One end coil extended tangentially 0.50 in., and one end coil extended tangentially 0.70 in. at angle of 80° with other end. Blackened.		MP10653	Ramo-Wooldridge	R-W Dwg. 50401536-2	1 Req. Per Ass'y. (1/Sys.)		
280	PRINTED CIRCUIT BOARD AND COMPONENT ASSEMBLY. Over-all dimensions 10.906 in. lg x 10.327 in. wide x 1.50 in. high. This Assembly includes the following replaceable electrical parts:		MP10001	Ramo-Wooldridge	R-W Dwg. 50405013	1 Req. Per Complete Ass'y. (1/Sys.)		

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1	2	3	4	5	6	7	8	9		
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE		
281	CAPACITOR, fixed, silver mica, 0.813 in. lg x 0.813 in. wide x 0.344 in. thick, 0.01 mfd, <u>+ 1%</u> , 500 vdcw	C701	MP30033	El Menco	CM-35-103	8				
282	Same as C701	C702								
283	CAPACITOR, fixed, paper-dielectric, 0.400 in. lg x 0.750 in. dia, 0.047 mfd, + 20%, 600 vdcw, -55C to +100C operating temperature	C703	MP30034	Aerovox	PI23ZNG	4				
284	CAPACITOR, fixed, paper dielectric, 0.235 in. lg x 0.562 in. dia, 0.01 mfd, + 20%, 400 vdcw, -55C to +100C operating temperature	C704	MP30047	Aerovox	PI23ZNG	8				
285	Same as C704	C705								
286	CAPACITOR, fixed, flat disc ceramic, .750 in. dia, 0.01 mfd, 600 vdcw	C706	MP30012	Erie	821-.01	4				
287	Same as C701	C709								
288	Same as C701	C710								
289	Same as C703	C711								
290	Same as C704	C712								
291	Same as C701	C713								
292	Same as C706	C714								

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NAME OF CONTRACTOR		CONTRACT		R-W Project 5021				
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
293	Same as C701	C717						
294	Same as C701	C718						
295	Same as C703	C719						
296	Same as C704	C720						
297	Same as C704	C721						
298	Same as C706	C722						
299	Same as C701	C725						
300	Same as C701	C726						
301	Same as C703	C727						
302	Same as C704	C728						
303	Same as C704	C729						
304	Same as C706	C730						
305	CAPACITOR, fixed, hermetically sealed, 0.750 in. lg x 0.175 in. dia, 0.0047 mfd, +10%, 100 vdcw +125C to -55C operating temperature	C732	MP30065	Hopkins	HY-THERM 1K1472K	1		
306	CAPACITOR, fixed, hermetically sealed, 0.875 in. lg x 0.312 in. dia, 0.022 mfd, +10%, 100 vdcw +125C to -55C operating temperature	C733	MP38955	Hopkins	HY-THERM 1K1223K	1		

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
307	CAPACITOR, fixed, sub-miniature electrolytic, 0.375 in. lg x 0.219 in. dia, 6 mfd, 40 vdcw, +185C to -55C operating temperature	C734	MP30006	Mallory	TAP	1		
308	CAPACITOR, fixed, sub-miniature electrolytic, 0.375 in. lg x 0.219 in. dia, 2 mfd, 100 vdcw, +85C to -55C operating temperature	C735	MP30005	Mallory	TAP			
309	Same as C735	C736						
310	CAPACITOR, fixed, paper-dielectric, 0.312 in. lg x 0.75 in. dia, 0.10 mfd, +20%, 200 vdcw, +100C to -55C operating temperature	C737	MP30030	Aerovox	PI23ZNG	2		
311	CAPACITOR, fixed, sub-miniature paper-dielectric, 0.686 in. lg x 0.175 in. dia, 0.0047 mfd, 100 vdcw, +85C to -40C operating temperature	C740	MP30044	Sprague	Vitamin Q	1		
312	CAPACITOR, fixed, paper-dielectric, 0.175 in. lg x 0.438 in. dia, 0.01 mfd, +20%, 200 vdcw, +100C to -55C operating temperature	C741	MP30019	Aerovox	PI23ZNG	1		
313	CAPACITOR, fixed, flat disc ceramic, 19/32 in. dia, 1 mfd, 600 vdcw	C743	MP30041	Erie	817-.02			

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1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
314	CAPACITOR, fixed, silver mica 13/16 in. lg x 13/16 in. wide x 9/32 in. thick, 6200 mmf, +1%, 500 vdcw, +125C to -55C operating temperature	C744	MP30028	El Menco	CM-30-622	1		
315	Same as C737	C745						
316	Same as C743	C746						
317	Same as C743	C749						
318	CAPACITOR, fixed, silver mica 0.625 in. lg x 0.406 in. wide x 0.156 in. thick, 0.0015 mfd, +5%, 500 vdcw, +125C to -55C operating temperature	C750	MP30017	El Menco	DM-19-152	4		
319	Same as C750	C751						
320	Same as C750	C752						
321	Same as C750	C753						
322	CAPACITOR, tantalum, dry electrolytic, polarized, 0.875 in. lg x 0.281 in. dia, 4 mfd, 150 vdcw, +85C to -55C operating temperature	C754	MP30003	General Electric	29F447			
323	Same as C754	C755						
324	CAPACITOR, fixed, sub-miniature electrolytic, 0.375 in. lg x 0.219 in. dia, 20 mfd, 10 vdcw, +85C to -55C operating temperature	C756	MP30007	Mallory	TAP	3		
325	Same as C743	C757						

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
326	Same as C756	C758						
327	Same as C743	C759						
328	Same as C756	C760						
329	Same as C743	C761						
330	CAPACITOR, fixed, tantalum, dry electrolytic, polarized, 2.125 in. lg x 0.375 in. dia, 100 mfd, 50 vdcw, +85C to -55C operating temperature	C762	MP30004	General Electric	GE29F410	2		
331	CAPACITOR, fixed, ceramic-disc, 0.250 in. dia, 0.0008 mfd, 600 vdcw	C763	MP30102	Erie	831-801	3		
332	Same as C763	C764						
333	Same as C763	C765						
334	COIL, toroid wound, plastic encapsulated, 0.813 in. lg x 0.813 in. wide x 0.375 in. thick, 10 millihenries	L701	MP40004	Hycor	EM-14P	2		
335	COIL, toroid wound, plastic encapsulated, 0.813 in. lg x 0.813 in. wide x 0.375 in. thick, 50 millihenries	L702	MP40012	Hycor	EM-14P	2		

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1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
336	Same as L701	L703						
337	Same as L702	L704						
338	COIL, toroid wound, plastic encapsulated, 1.500 in. dia x 0.625 in. thick, 1 henry, + 2%	L705	MP40020	Rayco	1923-2	1		
339	TRANSISTOR, silicon, junction, 0.315 in. lg x 0.405 in. wide x 0.210 in. thick, 3 leads 1.50 in. lg	Q701	MP 50001	Texas Instrument	903	3		
340	Same as Q701	Q702						
341	Same as Q701	Q703						
342	TRANSISTOR, silicon, junction, 0.637 in. lg x 0.429 in. wide x 0.274 thick overall, 3 leads 1.50 in. lg	Q704	MP50002	Texas Instrument	951	3		
343	Same as Q704	Q705						
344	Same as Q704	Q706						
345	RESISTOR, fixed, composition, value selected on basis of equipment performance, + 5%, 1/2 watt	R701	None	Allen-Bradley	EB	1		
346	RESISTOR, fixed, composition, value selected on basis of equipment performance, + 5%, 1/2 watt	R702	None	Allen-Bradley	EB	1		

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
347	RESISTOR, fixed, composition, 100,000 ohms, $\pm 5\%$ , 1/2 watt	R703	MP20296	Allen-Bradley	EB			RC20GF104J
348	RESISTOR, fixed, wire-wound, 1500 ohms, $\pm 1\%$	R704	MP20335	Hycor		5		
349	RESISTOR, fixed, wire-wound, 3300 ohms, $\pm 1\%$	R705	MP20036	Hycor		3		
350	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$ , 1/2 watt	R706	None	Allen-Bradley	EB	1		
351	RESISTOR, fixed, composition, 220,000 ohms, $\pm 5\%$ , 1/2 watt	R707	MP20101	Allen-Bradley	EB			RC20GF224J
352	Same as R703	R708						
353	RESISTOR, fixed, composition, 5100 ohms, $\pm 5\%$ , 1/2 watt	R709	MP20116	Allen-Bradley	EB			RC20GF512J
354	Same as R707	R710						
355	RESISTOR, fixed, composition, 1000 ohms, $\pm 5\%$ , 1/2 watt	R711	MP20326	Allen-Bradley	EB	8		RC20GF102J
356	RESISTOR, fixed, composition, 22,000 ohms, $\pm 5\%$ , 1/2 watt	R712	MP20368	Allen-Bradley	EB			RC20GF223J
357	RESISTOR, fixed, composition, 10,000 ohms, $\pm 5\%$ , 1/2 watt	R713	MP20168	Allen-Bradley	EB			RC20GF103J

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NAME OF CONTRACTOR Ramo-Wooldridge Corp. CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
358	Same as R712	R714						
359	RESISTOR, fixed, composition, 2200 ohms, $\pm 5\%$ , 1/2 watt	R715	MP20249	Allen-Bradley	EB	5		RC20GF222J
360	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$ , 1/2 watt	R719	None	Allen-Bradley	EB	1		
361	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$ , 1/2 watt	R720	None	Allen-Bradley	EB	1		
362	Same as R703	R721						
363	Same as R704	R722						
364	Same as R705	R723						
365	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$ , 1/2 watt	R724	None	Allen-Bradley	EB	1		
366	Same as R707	R725						
367	Same as R703	R726						
368	Same as R709	R727						
369	Same as R707	R728						
370	Same as R712	R729						

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EQUIPMENT (NOMENCLATURE) Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

SHEET 73 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp. CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
371	Same as R711	R730						
372	Same as R713	R731						
373	Same as R712	R732						
374	Same as R715	R733						
375	RESISTOR, fixed, composition, 9100 ohms, $\pm 5\%$ , 1/2 watt	R737	MP20191	Allen-Bradley	EB	2		RC2CGF912J
376	Same as R737	R738						
377	Same as R703	R739						
378	Same as R704	R740						
379	Same as R705	R741						
380	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$ , 1/2 watt	R742	None	Allen-Bradley	EB	1		
381	Same as R707	R743						
382	Same as R703	R744						
383	Same as R709	R745						
384	Same as R707	R746						
385	Same as R712	R747						
386	Same as R711	R748						
387	Same as R713							
388	Same as R712	R750						

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EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1  
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SHEET 74 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
389	Same as R713	R751	MP20158	Allen-Bradley	EB	2		RC20GF123J
390	RESISTOR, fixed, composition, 12,000 ohms, $\pm 5\%$ , 1/2 watt	R755						
391	Same as R755	R756						
392	Same as R703	R757						
393	Same as R704	R758						
394	Same as R705	R759	None	Allen-Bradley		1		
395	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$ , 1/2 watt	R760						
396	Same as R707	R761						
397	Same as R703	R762						
398	Same as R709	R763						
399	Same as R707	R764						
400	Same as R712	R765						
401	Same as R711	R756						
402	Same as R713	R767						
403	Same as R712	R768						
404	Same as R715	R769						
405	RESISTOR, fixed, composition, 130,000 ohms, $\pm 5\%$ , 1/2 watt	R773	MP20315	Allen-Bradley	EB	1		RC20GF134J

EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1

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NAME OF CONTRACTOR Ramo-Wooldridge Corp. CONTRACT R-W Project 5021

PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
406	RESISTOR, fixed, composition, 30,000 ohms, $\pm 5\%$ , 1/2 watt	R774	MP20167	Allen-Bradley	EB			RC20GF303J
407	Same as R703	R775						
408	Same as R715	R776						
409	RESISTOR, fixed, composition, 1300 ohms, $\pm 5\%$ , 1/2 watt	R777	MP20115	Allen-Bradley	EB	1		RC20GF132J
410	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$ , 1/2 watt	R778	None	Allen-Bradley	EB	1		
411	Same as R703	R779						
412	Same as R713	R780						
413	RESISTOR, fixed, composition, 910 ohms, $\pm 5\%$ , 1/2 watt	R781	MP20105	Allen-Bradley	EB	1		RC20GF911J
414	Same as R712	R782						
415	Same as R709	R783						
416	Same as R712	R784						
417	Same as R713	R785						
418	RESISTOR, fixed, composition, 39,000 ohms, $\pm 5\%$ , 1/2 watt	R788	MP20177	Allen-Bradley	EB	1		RC20GF393J
419	Same as R703	R789						

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
420	Same as R711	R790						
421	RESISTOR, fixed, composition, 100 ohms, $\pm 5\%$ , 1/2 watt	R791	MP20192	Chmite	EB	4		RC20GF10LJ
422	Same as R703	R792						
423	RESISTOR, fixed, composition, 47,000 ohms, $\pm 5\%$ , 1/2 watt	R793	MP20379	Allen-Bradley	EB	3		RC20GF473J
424	Same as R703	R794						
425	RESISTOR, fixed, composition, 2000 ohms, $\pm 5\%$ , 1/2 watt	R795	MP20104	Allen-Bradley	EB			RC20GF202J
426	RESISTOR, fixed, composition, 10 ohms, $\pm 5\%$ , 1/2 watt	R796	MP20163	Allen-Bradley	EB	1		RC20GF100J
427	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$ , 1/2 watt	R797	Ncre	Allen-Bradley	EB	1		
428	Same as R791	R798						
429	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$ , 1/2 watt	R799	None	Allen-Bradley	EB	1		
430	RESISTOR, fixed, composition, value selected on basis of equipment performance, $\pm 5\%$	R301	None	Allen-Bradley	EB	1		



EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
431	RESISTOR, variable, composition, 1.250 in. lg x 0.313 in. high x 0.280 in. wide, 20,000 ohms max, $\pm 20\%$ , 0.2 watt	R802	MP20072	Bourns Labs	120-15-20,000	2		
432	Same as R791	R803						
433	Same as R802	R804						
434	Same as R791	R805						
435	RESISTOR, fixed, wire-wound, 30 ohms, $\pm 5\%$ , 3 watt	R806	MP20003	Sprague	Blue Jacket	4		
436	Same as R806	R807						
437	Same as R806	R808						
438	Same as R806	R809						
439	RESISTOR, fixed, composition, 36,000 ohms, $\pm 5\%$ , 1/2 watt	R815	MP20180	Allen-Bradley	EB			RC20GF363J
440	RESISTOR, fixed, composition, 13,000 ohms, $\pm 5\%$ , 2 watt	R816	MP20026	Allen-Bradley	HB	1		RC41GF133J
441	Same as R707	R817						
442	Same as R711	R818						
443	RESISTOR, fixed, composition, 470,000 ohms, $\pm 5\%$ , 1/2 watt	R819	MP20375	Allen-Bradley	EB			RC20GF474
444	Same as R707	R820						

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SHEET 78 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
445	Same as R712	R821						
446	Same as R707	R822						
447	Same as R711	R823						
448	Same as R819	R824						
449	Same as R707	R825						
450	Same as R712	R826						
451	Same as R707	R827						
452	Same as R711	R828						
453	Same as R819	R829						
454	Same as R707	R830						
455	Same as R712	R831						
456	ELECTRON TUBE, sub-miniature	V701	MP45001	Raytheon	6112	12		
457	Same as V701	V702						
458	Same as V701	V703						
459	Same as V701	V704						
460	Same as V701	V705						
461	Same as V701	V706						
462	Same as V701	V709						
463	Same as V701	V710						

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EQUIPMENT (NOMENCLATURE) MPI0737 OF SYSTEM 1

SHEET 79 OF SHEETS

NAME OF CONTRACTOR Ramo-Woodbridge Corp. CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
464	Same as V701	V711						
465	Same as V701	V712						
466	Same as V701	V713						
467	Same as V701	V714						
468	CRYSTAL, enclosed in hermetically sealed can, 3.250 in. lg x 1.250 in. dia, octal base mounting, 1.000 kc	Y701	MP65501	Heemco	8J20SS	1		

EQUIPMENT (NOMENCLATURE) MP10406 OF SYSTEM 1

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NAME OF CONTRACTOR Ramo-Wooldridge, Inc. Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
469	MP10406 COMPLETE ASSEMBLY Over-all dimensions 4.56 in. lg x 3.50 in. wide x 2.46 in. high. MP10406 engraved on nameplate. Consists of the following replaceable parts and assemblies:	UNIT C2	MP10406	Ramo-Wooldridge	R-W Dwg. 50403201	1 Req. Per System		
470	CASE ASSEMBLY. Formed from 0.032 in. sheet aluminum. Over-all dimensions 4.47 in. lg x 3.41 in. wide x 2.03 in. high, four drilled and tapped mounting posts. Black-wrinkle finish.		MP10139	Ramo-Wooldridge	R-W Dwg. 50403209	1 Req. Per Complete Ass'y. (1/Sys.)		
471	COVER-AND-CHASSIS ASSEMBLY. Over-all dimensions 4.56 in. lg x 3.50 in. wide x 2.375 in. high. Cover formed from 0.032 in. sheet aluminum, drilled for mounting on the case assembly. Includes all electrical and mechanical components, two permanently-mounted and hermetically sealed jacks, and a gasket. MP10406 engraved on nameplate. Black-wrinkle finish.  The following parts of the cover-and-chassis assembly are replaceable:		MP10080	Ramo-Wooldridge	R-W Dwg. 50403201	1 Req. Per Complete Ass'y. (1/Sys.)		

EQUIPMENT (NOMENCLATURE) MPI0406 OF SYSTEM 1						PARTS DATA LIST		
NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021								
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
472	CAPACITOR, fixed, paper-di-electric, 1.062 in. lg x 0.562 in. dia, 0.1 mfd, +10%, 400 vdcw	C401	MP30022	Sprague	Vitamin Q 196P10494S4	1		
473	CAPACITOR, fixed, tantalum, dry electrolytic, polarized, 1.25 in. lg x 0.975 in. dia, 25 mfd, 180 vdcw, +200C to -55C operating temperature	C402	MP30008	Mallory	XTH-25	2		
474	Same as C402	C403						
475	CAPACITOR, fixed, tantalum, dry electrolytic, polarized, 2.125 in. lg x 0.375 in. dia, 100 mfd, 50 vdcw, +85C to -55C operating temperature	C404	MP30004	General Electric	GE29F410			
476	CAPACITOR, fixed, flat disc ceramic, 0.594 in. dia, 0.02 mfd, 600 vdcw	C405	MP30041	Erie	817-.02			
477	Same as C405	C406						
478	CAPACITOR, fixed, flat disc ceramic, 0.375 in. dia, 0.002 mfd, 600 vdcw	C407	MP30021	Erie	801-.002	2		
479	Same as C407	C408						

EQUIPMENT (NOMENCLATURE) MPI0406 OF SYSTEM 1  
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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
480	DIODE, silicon junction, 1.183 in. lg x 0.437 in. wide, with solder-lug anode connection, 10-32 threaded cathode connection, and 7/16 in. hexagonal flange. 0.2 amps dc.	CR401	MP55004	Transitron	IN335	4		
481	Same as CR401	CR402						
482	Same as CR401	CR403						
483	Same as CR401	CR404						
484	FUSE, 1.25 in. lg x 0.25 in. dia, 3 amps, 125 volt, slo-blo.	F401	MP57001	Littelfuse	313003	1		
485	VIBRATOR, 1.50 in. dia x 2.75 in. high, octal base, 26.5 volts dc input. Circuit connections printed on top of case.	G401	MP65001	Airpax	A-500-24	1		
486	COIL, rf, solenoid wound, 0.598 in. lg x 0.219 in. dia, 27 microhenries, + 10%	L401	MP40009	Jeffers	10203-20	1		
487	RESISTOR, fixed, composition, 20 ohms, + 5%, 1/2 watt	R401	MP20381	Allen-Bradley	EB	2		RC20GF200J
488	Same as R401	R402						
489	RESISTOR, fixed, composition, 47,000 ohms, + 5%, 1/2 watt	R403	MP20379	Allen-Bradley	EB			RC20GF473J
490	Same as R403	R404						

Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

EQUIPMENT (NOMENCLATURE) Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

SHEET 83 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
491	TRANSFORMER, power, open-frame, 1.50 in. lg x 1.312 in. high x 1.625 in. wide, 28-volt-center-tapped primary, 250-volt-center-tapped secondary, six 5.0-in.-lg leads, color coded primary-brown with black center tap, secondary-red with orange center tap.	T401	MF70001	Magnecraft Electric Per R-W Dwg. 50403214	R-W Dwg. 50403214	1		

EQUIPMENT (NOMENCLATURE) MP63003 OF SYSTEM 1  
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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
492	MP63003 COMPLETE CABLE ASSEMBLY. Over-all length 9.94 in. Consists of the following replaceable parts:	W1201 or W1204	MP63003	Ramo- Wooldridge	R-W Dwg. 50400002	2 Req. Per System		
493	CABLE, Coaxial. Over-all dimensions 8.00 in. lg x 0.242 in. dia. 93 ohms.		MP63013	American Phenolic	21-026	1 Req. Per Complete Ass'y. (2/Sys.)		RG-62/U
494	PLUG, Coaxial. Over-all dimensions 0.9688 in. lg x 0.5625 in. dia.	P201 and P101 RIGHT or P101 LEFT	MP62014	American Phenolic	31-012	2 Req. Per Complete Ass'y. (4/Sys.)		UG-260/U



EQUIPMENT (NOMENCLATURE) MP63005 OF SYSTEM 1

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NAME OF CONTRACTOR

Ramo-Wooldridge Corp

CONTRACT

R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
495	MP63005 COMPLETE CABLE ASSEMBLY. Over-all length 24.25 in. Consists of the following replaceable parts:	W1202	MP63005	Ramo-Wooldridge	R-W Dwg. 50400003	1 Req. Per System		
496	RECEPTACLE. Over-all dimensions 0.531 in. lg x 0.562 in. wide x 0.781 in. high. 7 pin receptacle.	P10Z RIGHT and P10Z LEFT and F40Z	MP62002	Winchester	M7S-LS	3 Req. Per Complete Ass'y. (3/Sys.)		
497	HOOD, Aluminum. Over-all dimensions 0.938 in. lg x 0.655 in. dia. Hood has 0.250 in. cable opening.		MP62017	Winchester	M5-H16	3 Req. Per Complete Ass'y. (3/Sys.)		

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EQUIPMENT (NOMENCLATURE)		NAME OF CONTRACTOR		CONTRACT		PARTS DATA LIST		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. CF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
498	MP63004 COMPLETE CABLE ASSEMBLY. Over-all length of 60.250 in. Consists of the following replaceable parts:	W1203	MP63004	Ramo-Wooldridge	R-W Dwg. 50400004	1 Req. Per System		
499	RECEPTACLE. Over-all dimensions 0.594 in. lg x 0.469 in. dia. 4 pin receptacle.	P103 RIGHT and P103 LEFT and P104	MP62001	Winchester	M4S-LS	3 Req. Per Complete Ass'y. (3/Sys.)		
500	HCOB, Aluminum. Over-all dimensions 1.000 in. lg x 0.562 in. dia. Hcob has 0.219 in. cable opening.		MP62016	Winchester	M4-H14	3 Req. Per Complete Ass'y. (3/Sys.)		
501	PLUG, Connector. Over-all dimensions 2.125 in. lg x 1.812 in. dia. Plug has 14 contacts.	P1201	MP62011	American Phenolic	AN3106E-20-27P	1 Req. Per Complete Ass'y. (1/Sys.)		AN3106E-20-27P
502	CLAMP, Cable. Over-all dimensions 1.188 in. lg x 1.375 in. dia.		MP63019	American Phenolic	AN3057-12A	1 Req. Per Complete Ass'y. (1/Sys.)		AN3057-12A

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
503	MP63006 COMPLETE CABLE ASSEMBLY. Over-all length 32.5 in. Consists of the following replaceable parts:	W1205	MP63006	Ramo-Wooldridge	R-W Dwg. 50400005	1 Req. Per System		
504	CONNECTOR, Rectangular. Over-all dimensions 2.250 in. lg x 0.375 in. wide x 0.859 in. high. Connector has 21 contacts.	P702	MP62008	Winchester	MRE21S-G	1 Req. Per Complete Ass'y. (1/Sys.)		UI 21F 36/06RC
505	HOOD, Connector. Over-all dimensions 1.556 in. lg x 2.250 in. wide x 0.438 in. high. Two holes tapped 4-40 NC-2. (For P702).		MP62013	Winchester MRE 21H (Modified Per R-W Dwg. 50401374-1)	R-W Dwg. 50401374-1	1 Req. Per Complete Ass'y. (1/Sys.)		
506	PLUG, Connector. Over-all dimensions 1.688 in. lg x 1.156 in. dia. Plug has 5 contacts.	PI202	MP62021	American Phenolic	AN3106 B-14S-5P	1 Req. Per Complete Ass'y. (1/Sys.)		AN3106B-14S-5P
507	CLAMP, Cable. Over-all dimensions 1.078 in. lg x 0.938 in. dia. (For PI202 and PI204).		MP62025	American Phenolic	AN3057-6A	2 Req. Per Complete Ass'y. (2/Sys.)		AN3057-6A
508	PLUG, Connector. Over-all dimensions 1.688 in. lg x 1.156 in. dia. Plug has 5 contacts.	PI204	MP62015	American Phenolic	AN3106B-14S-2P	1 Req. Per Complete Ass'y. (1/Sys.)		AN3106B-14S-2P

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NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
509	RING, Bonding. Over-all dimensions 0.687 in. dia x 0.188 in. thick. (For P1204)		MP63020	Cannon Electric	AN3111-3	1 Req. Per Complete Ass'y. (1/Sys.)		AN3111-3
510	PLUG, Connector. Over-all dimensions 1.688 in. lg x 1.250 in. dia. Plug has 5 contacts.	P1203	MP52030	American Phenolic	AN3106B-16S-8P	1 Req. Per Complete Ass'y. (1/Sys.)		AN3106B-16S-8P
511	CLAMP, Cable. Over-all dimensions 1.125 in. lg x 1.062 in. dia. (For P1203).		MP63000	American Phenolic	AN3057-8A	1 Req. Per Complete Ass'y. (1/Sys.)		AN3057-8A

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PARTS-DATA LIST  
SECTION II  
GROUND-BASED EQUIPMENT

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EQUIPMENT (NOMENCLATURE)

MP10566 OF SYSTEM 1

SHEET 09 OF SHEETS

NAME OF CONTRACTOR

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The Ramo-Wooldridge Corporation

CONTRACT

R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
512	MP10566, COMPLETE ASSEMBLY. Over-all dimensions 26.65 in. lg x 22.13 in. wide x 16.68 in. high. Consists of a Case-and-Cover Assembly and a Front-Panel-and-Chassis Assembly.  The Case-and-Cover Assembly includes the following replaceable parts and assemblies:	TEST SET	MP10566	Ramo-Wooldridge	R-W Dwg. 50403357			
513	CASE. Made from aluminum. Over-all dimensions 24.34 in. lg x 18.50 in. wide x 16.43 in. high. A rectangular box, open on one end. Two cover latches on each side of open end. Two folding handles on each side, and three filter housings, one on each side and one on closed end. Black wrinkle finish.		MP10500	Ramo-Wooldridge	R-W Dwg. 50403025	1 Req. Per Complete Assy.		
514	LEG, Case. Made from aluminum. Over-all dimensions 0.250 in. lg x 1.000 in. dia. One 0.191 in. dia hole drilled through axis and counter-drilled 0.437 in. dia x 0.163 in. deep. Blackened.		MP10593	Ramo-Wooldridge	R-W Dwg. 50403022	4 Req. Per Complete Assy.		
515	PLATE, Reinforcing. Made from aluminum. Over-all dimensions 4.81 in. lg x 0.812 in. wide x 0.125 in. thick. One 0.392 in. dia hole 0.40 in. from each end. Blackened.		MP10620	Ramo-Wooldridge	R-W Dwg. 50403029	4 Req. Per Complete Assy.		

EQUIPMENT (NOMENCLATURE) MPI0566 OF SYSTEM 1								
NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021								
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
516	FILTER FRAME. Made from sheet aluminum. Over-all dimensions 14.63 in. lg x 5.312 in. wide x 1.00 in. high. A welded frame open on one end. Blackened.		MP10513	Ramo-Wooldridge	R-W Dwg. 50403040	3 Req. Per Complete Ass'y.		
517	FILTER CARTRIDGE. Made from glass-floss fibers. Over-all dimensions 14.63 in. lg x 5.00 in. wide x 0.87 in. thick.		MP10234	Burke	RMS-1 Filter Media	3 Req. Per Complete Ass'y.		
518	HOUSING, Filter. Made from aluminum. Over-all dimensions 16.00 in. lg x 6.81 in. wide x 1.43 in. high. Rectangular shape with 3 groups of 6 louvers. Blackened.		MP10633	Ramo-Wooldridge	R-W Dwg. 50403044	3 Req. Per Complete Ass'y.		
519	GASKET, Filter. Made from sheet cork and rubber. Rectangular shape. Over-all dimensions 15.94 in. lg x 6.75 in. wide x 0.032 in. thick. Inside dimensions 15.12 in. lg x 5.93 in. wide.		MP10563	Ramo-Wooldridge	R-W Dwg. 50403045	3 Req. Per Complete Ass'y.		
520	STANDOFF, Filter. Made from aluminum. Cylindrical shape. Over-all dimensions 1.255 in. lg x 0.500 in. dia. One 0.159-in. dia hole drilled through axis and tapped #10-32 NF-2 to depth of 0.63 in. at each end. One 0.187-in. dia hole drilled through diameter 0.63 in. from one end. Blackened.		MP10563	Ramo-Wooldridge	R-W Dwg. 50403046	30 Req. Per Complete Ass'y.		

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SHEET 91 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project: 5021

PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
521	COVER. Made from aluminum. Rectangular shape. Over-all dimensions 20.256 in. lg x 16.760 in. wide x 0.812 in. high. Two suitcase bolts on each side. Inner rim lining of 0.125 in. x 0.125 in. foam rubber. Blackened.		MPI0629	Ramo-Wooldridge	R-W Dwg. 50403026	1 Req. Per Complete Ass'y.		
522	HANDLE, Folding. Made from brass. Over-all dimensions 4.625 in. lg x 0.625 in. wide x 1.312 in. high. A U-shaped grip connected at each end by swivel-pins to 3/8-24 mounting studs.		MPI0503	Cambridge Thermionic	X 2062	1 Req. Per Complete Ass'y.		

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SHEET 92 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp. CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
523	FRONT PANEL AND CHASSIS ASSEMBLY. Over-all dimensions 18.25 in. wide x 16.25 in. high x 21.5 in. deep. Consists of the following replaceable parts and assemblies:		MPI0584	Ramo-Wooldridge	R-W Dwg. 50403316	1 Req. Per Complete Ass'y.		
524	CLAMP, Wave Guide. Over-all dimensions 1.39 in. lg x 0.875 in. wide x 0.50 in. high. Rectangular clamp with a 0.156-in. dia hole located 0.18 in. from each end. A semi-circular hole 0.750 in. dia x 0.375 in. radius through the lower half of clamp. Clamp has a cork-and-rubber surface. Blackened.		MPI0631	Ramo-Wooldridge	R-W Dwg. 50403018	2 Req. Per Complete Ass'y.		
525	CLAMP, Vernier. Made from aluminum. Over-all dimensions 3.00 in. lg x 0.44 in. wide x 1.47 in. high. Clamp has a 0.203-in. dia hole located 0.157 in. from each end. One end is 1.30 in. high for a length of 0.157 in., beveled to 1.47 in. high for length of 1.250 in., beveled to 1.00 in. high for length of 0.157 in. Semi-circular hole 2.395 in. dia x 1.697 in. radius. Blackened.		MPI0498	Ramo-Wooldridge	R-W Dwg. 50403034	1 Req. Per Complete Ass'y.		
526	SUPPORT, Vernier. Made from aluminum. Over-all dimensions 3.00 in. lg x 3.00 in. wide x 1.56 in. high. Support has 0.25-in. dia hole in each of four corners.		MPI0587	Ramo-Wooldridge	R-W Dwg. 50403035	1 Req. Per Complete Ass'y.		

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SHEET 93 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

## PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
526	SUPPORT, Vernier. (Cont'd.) and two 0.156-in. -dia holes tapped 8-32 NC-2 to depth of 0.38 in., one in each side of offset facing. One hole 2.395 in. dia drilled through center of support. Blackened.		MP10587	Ramo-Wooldridge	R-W Dwg. 50403035	1 Req. Per Complete Ass'y.		
527	SPACER. Made from brass. Over-all dimensions 1.50 in. lg x 0.250 in. dia. A hole 0.106 in. dia drilled through and tapped 6-32 for a depth of 0.375 in. both ends. Cadmium plated.		MP10634	Ramo-Wooldridge	R-W Dwg. 50403098	3 Req. Per Final Ass'y.		
528	PANEL, Front. Made from aluminum plate. Rectangular shape. Over-all dimensions 18.250 in. lg x 0.250 in. wide x 16.188 in. high. One rectangular hole located 0.781 in. from one side, 9.375 in. lg x 6.938 in. wide. Additional holes for mounting meters and controls. Blackened.		MP10591	Ramo-Wooldridge	R-W Dwg. 50403301	1 Req. Per Complete Ass'y.		
529	PLATE, Chassis. Made from steel. Over-all dimensions 20.00 in. lg x 0.109 in. wide x 18.00 in. high. Opposite corners on one side cut out 3.25 in. lg x 0.812 in. wide. One rectangular hole, located 1.50 in. from side, 7.00 in. lg x 3.75 in. wide. Additional holes for mounting meters and controls. Cadmium plated.		MP10515	Ramo-Wooldridge	R-W Dwg. 50403302	1 Req. Per Complete Ass'y.		

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PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
530	ATTENUATOR CONTROL Assem- bly. Over-all dimensions 3.180 in. lg x 1.875 in. dia. Consists of the following replaceable parts:		MP10499	Ramo- Wooldridge	R-W Dwg. 50403303	1 Req. Per Complete Ass'y.		
531	SHAFT, Dial. Made from stainless steel. Over-all dimensions 1.88 in. lg x 0.248 in. dia. Shaft is 0.248 in. dia for a length of 1.180 in., a groove 0.031 in. wide x 0.015 in. deep, 0.248 in. dia for a length of 0.360 in. and remainder of shaft 0.123 in. dia.		MP10303	Ramo- Wooldridge	Item 1 of R-W Dwg. 50403303	1 Req. Per Ass'y.		
532	HOUSING, Dial-Shaft and Coupling. Made from alumi- num. Cylindrical shape. Over-all dimensions 1.500 in. lg x 1.875 in. dia. One hole 0.437 in. dia drilled through from one end, coun- terbored 0.375 in. dia to a depth of 1.390 in. One hole 0.250 in. dia, drilled through radially to counter- bore. Two holes 0.152 in. dia drilled through diameter and counterbored 0.250 in. dia x 0.250 in. deep and tap- ped 6-32 NC-2 x 1.50 in. deep. Blackened.		MP10311	Ramo- Wooldridge	Item 2 of R-W Dwg. 50403302	1 Req. Per Ass'y.		
533	COUPLING, Flexible. Over- all dimensions 0.812 in. lg x 0.562 in. dia. Flexible coupling 0.438 in. dia at one end, and 0.438 in. dia at the		MP10314	Lord	SK-1947	1 Req. Per Ass'y.		

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
533	COUPLING, Flexible. (Cont'd.) opposite end. One hole 0.188 in. dia through axis of coupling.		MP10314	Lord	SK-1947	1 Req. Per Ass'y.		
534	RING, Dial-Shaft Retaining. Made from carbon spring steel. Over-all dimensions 0.250 in. dia x 0.025 in. thick. Two clamping holes 0.041 in. dia.		MP10417	Waldes Kohinoor	5100-25	1 Req. Per Ass'y.		
535	BUSHING, Chassis. Made from brass. Over-all length 0.565 in. One end flanged, the remainder of bushing threaded 3/8-32. Inside diameter 0.255 in.		MP10424	U.S. Engineering	1560	1 Req. Per Ass'y.		
536	DIAL. Over-all dimensions 1.612 in. dia x 1.00 in. thick. The dial consists of two coaxial dials. The shaft diameter is 0.250 in. Dials are satin chrome; black-filled numerals and divisions. Knob and locking lever cap are black nylon.		MP10592	Helipot	Model RB Duodial	1 Req. Per Ass'y.		
537	ATTENUATOR. Over-all dimensions 2.250 in. lg x 1.625 in. wide x 1.500 in. high. T-shaped and has a UG-39/U flanged connector on one end and a UG-40/U flanged connector on opposite end. Frequency range of 8.5-9.6 Kmc and an attenuation range of 15 db. Gray.	AT502	MP67501	Microwave Assoc.	MA-534	1 Req. Per Complete Ass'y.		

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
538	DIAL ADAPTER ASSEMBLY. Over-all dimensions 3.188 in. lg x 1.875 in. dia. Consists of the following replaceable parts:		MP10501	Ramo-Wooldridge	R-W Dwg. 50403304	1 Req. Per Complete Ass'y.		
539	ADAPTER, Dial. Made from aluminum. Cylindrical shape. Over-all dimensions 1.250 in. lg x 1.875 in. dia. One hole 0.750 in. dia drilled through axis and chamfered 0.06 in. deep at each end. Two 0.154 in. -dia holes parallel to axis, counterbored 0.250 in. dia x 0.75 in. deep. Two 0.106-in. dia holes parallel to axis, tapped 6-32 NC-2 x 0.250 in. deep. One hole 0.070 in. dia x 0.310 in. deep and tapped 2-56 NC-2 x 0.250 in. deep. One hole 0.125 in. dia x 0.250 in. deep. Blackened.		MP10561	Ramo-Wooldridge	R-W Dwg. 50403305	1 Req. Per Ass'y.		
540	DIAL. Over-all dimensions 1.812 in. dia x 1.00 in. thick. The dial consists of two co-axial dials. The shaft diameter is 0.250 in. Dials are satin chrome; black-filled numerals and divisions. Knob and locking lever cap are black nylon.		MP10592	Helipot	Model RB Duodial	1 Req. Per Ass'y.		

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 97 OF SHEETS

NAME OF CONTRACTOR Ramo-Wooldridge Corp CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
541	BUSHING, Adapter. Made from bronze. Cylindrical shape. Over-all dimensions 1.100 in. lg x 0.750 in. dia. One hole 0.500 in. dia through axis of bushing.		MP10588	Ramo-Wooldridge	R-W Dwg. 50403306	1 Req. Per Ass'y.		
542	SPACER, Adapter. Made from aluminum. Cylindrical shape. Over-all dimensions 0.250 in. lg x 1.875 in. dia. Two 0.169-in.-dia holes parallel to axis and countersunk 0.281 in. deep. Two 0.169-in.-dia holes parallel to axis. One hole 0.375 in. dia drilled through center and counter-bored 0.750 in. dia x 0.125 in. deep. Blackened.		MP10527	Ramo-Wooldridge	R-W Dwg. 50403307	1 Req. Per Ass'y.		
543	SHAFT, Pilot. Made from stainless steel. Over-all dimensions 2.120 in. lg x 0.687 in. dia. One end flanged 0.687 in. dia x 0.125 in. wide, shaft is 0.498 in. dia for a length of 1.110 in., and remaining length is 0.249 in. dia. One hole 0.257 in. dia drilled 1.060 in. deep in flanged end and tapped 5/16-18NC-2 x 1.00 in. deep.		MP10495	Ramo-Wooldridge	R-W Dwg. 50403308	1 Req. Per Ass'y.		

## EQUIPMENT (NOMENCLATURE)

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NAME OF CONTRACTOR		CONTRACT		R-W Project 5021		PARTS DATA LIST		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
544	SHAFT. Made from stainless steel. Over-all dimensions 1.937 in. lg x 0.625 in. dia. Shaft is spherical on one end. 0.812-in-length of shaft adjacent to spherical end is 0.235 in. in dia., flat on two diametrically opposed sides. Adjacent length of shaft is a flange 0.125 in. wide x 0.625 in. in dia. Remainder of shaft 0.311 in. dia. threaded 5/16-18NC-2.		MP10504	Ramo-Wooldridge	R-W Dwg. 50403309	1 Req. Per Ass'y.		
545	WASHER, Locating. Over-all dimensions 1.562 in. lg x 0.750 in. wide x 0.0312 in. thick.		MH0582	Relipot (Modified Per R-W Dwg. 50403340)	R-W Dwg. 50403340 (Part of Model R-D Duodial)	1 Req. Per Ass'y.		

## EQUIPMENT (NOMENCLATURE)

MP10566 OF SYSTEM 1

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NAME OF CONTRACTOR The Ramo-Wooldridge Corporation

CONTRACT

R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
546	BRACKET Assembly. Made from steel. Right-angle bracket. Over-all dimensions 6.30 in. lg x 0.60 in. wide x 8.80 in. high. Two mounting tabs rivited at each end. Tabs extend 1.0 in. and are threaded 10-32 NF-2. Cadmium plated.		MP10519	Ramo-Wooldridge	R-W Dwg. 50403312	1 Req. Per Complete Ass'y.		
547	ANGLE, Bracket. Made from sheet steel. A right-angle bracket. Over-all dimensions 6.75 in. lg x 0.69 in. wide x 1.00 in. high. Two 0.188-in.-dia holes in one bracket face, and two 0.250-in.-dia holes in other bracket face. Cadmium plated.		MP10502	Ramo-Wooldridge	R-W Dwg. 50403313	1 Req. Per Complete Ass'y.		
548	BRACKET, Klystron. Made from sheet steel. A V-shaped bracket. Over-all dimensions 7.010 in. lg x 4.750 in. wide x 1.688 in. high. Two 1.120-in.-dia tube-mounting holes. Fourteen additional holes for mounting associated components and for mounting the bracket. Cadmium plated.		MP10645	Ramo-Wooldridge	R-W Dwg. 50403317	1 Req. Per Complete Ass'y.		
549	TERMINAL BOARD Assembly. Made from epoxy-glass laminate. Rectangular shape. Over-all dimensions 7.25 in. lg x 1.63 in. wide x 0.453 in. thick. Four mounting holes 0.125 in. dia. Nineteen terminals.	TB502	MP10525	Ramo-Wooldridge	R-W Dwg. 50403319	1 Req. Per Complete Ass'y.		



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NAME OF CONTRACTOR Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0  
Thompson Submarine Equipment CONTRACT R-W Project 5021

PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
550	POST, TB502 Mounting. Made from brass. Rectangular shape. Over-all dimensions 2.30 in. lg x 0.25 in. wide x 0.25 in. high. Two mounting holes 0.089 in. dia tapped through 4-40 NC-2B. One hole 0.089 in. dia x 0.50 in. deep drilled in one end and tapped 4-40 NC-2B x 0.38 in. deep. Cadmium plated.		MP10425	Ramo-Wooldridge	Item 2 R-W Dwg. 50403319	2 Req. Per Complete Ass'y.		
551	TERMINAL BOARD Assembly. Made from epoxy-glass laminate. Rectangular shape. Over-all dimensions 5.50 in. lg x 2.00 in. wide x 0.453 in. thick. Two holes 0.125 in. dia drilled in center of board, four mounting holes 0.125 in. dia. Twenty terminals.	TB503	MP10586	Ramo-Wooldridge	R-W Dwg. 50403320	1 Req. Per Complete Ass'y.		
552	POST, TB503 Mounting. Made from brass. Rectangular shape. Over-all dimensions 2.06 in. lg x 0.250 in. wide x 0.250 in. high. Two mounting holes 0.125 in. dia drilled and tapped through 4-40 NC-2B. One hole drilled and tapped through 4-40 NC-2B x 0.38 in. deep. Cadmium plated.		MP10325	Ramo-Wooldridge	Item 2 R-W Dwg. 50403320	2 Req. Per Complete Ass'y.		

EQUIPMENT (NOMENCLATURE) MPI0500 OF SYSTEM 1

SHEET 101 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
553	BRACKET, Blower. Made from sheet steel. Rectangular shape. Over-all dimensions 10.75 in. lg x 3.63 in. wide x 0.0598 in. thick. Two holes 2.25 in. square. One hole 0.375 in. dia and twelve holes 0.250 in. dia. Cadmium plated.		MP10511	Ramo-Wooldridge	R-W Dwg. 50403321	1 Req. Per Complete Ass'y.		
554	BRACKET. Made from sheet steel. Triangular bracket. Over-all dimensions 6.00 in. lg x 0.68 in. wide x 6.312 in. high. One hole 0.50 in. dia and four holes 0.250 in. dia. Cadmium plated.		MP10627	Ramo-Wooldridge	R-W Dwg. 50403322	1 Req. Per Complete Ass'y.		
555	RIB. Made from sheet steel. Over-all dimensions 20.00 in. lg x 3.937 in. wide x 0.626 in. deep. Channel type chassis with right-angle bends on each side. Three oval mounting holes, thirteen circular mounting holes and seventeen screw holes. Cadmium plated.		MP10521	Ramo-Wooldridge	R-W Dwg. 50403323	1 Req. Per Complete Ass'y.		
556	TERMINAL BOARD Assembly. Made from epoxy-glass laminate. Rectangular shape. Over-all dimensions 8.00 in. lg x 3.38 in. wide x 0.453 in. thick. Four mounting holes 0.188 in. dia, eleven holes 0.250 in. dia, and forty-five terminals.	TB504	MP10635	Ramo-Wooldridge	R-W Dwg. 50403325	1 Req. Per Complete Ass'y.		

EQUIPMENT (NOMENCLATURE) MPI0566 OF SYSTEM 1

SHEET 102 OF SHEETS

NAME OF CONTRACTOR The Ramo Wooldridge Corporation CONTRACT R-W Project 9021

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1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
557	BRACKET, Angle. Made from sheet steel. Right-angle bracket. Over-all dimensions 1.38 in. lg x 1.00 in. wide x 1.80 in. high. Four mounting holes 0.161 in. dia. Blackened.		MP10644	Ramo-Wooldridge	R-W Dwg. 50403326	1 Req. Per Complete Ass'y.		
558	BRACKET, Angle. Made from sheet steel. Right-angle bracket. Over-all dimensions 0.63 in. lg x 0.50 in. wide x 1.63 in. high. Two mounting holes 0.152 in. dia. Blackened.		MP10526	Ramo-Wooldridge	R-W Dwg. 50403327	1 Req. Per Complete Ass'y.		
559	KNOB. Made from nylon. Cylindrical shape. Over-all dimensions 0.75 in. lg x 0.750 in. dia. One hole 0.625 in. dia for a depth of 0.25 in. reduced to 0.250 in. dia for depth of 0.31 in. drilled axially in one end. One hole 0.089 in. dia tapped 4-40 NC-2B for a depth of 0.25 in. drilled radially. Slot in opposite end 0.06 in. wide x 0.06 in. deep.		MP10497	Ramo-Wooldridge	R-W Dwg. 50403328	7 Req. Per Complete Ass'y.		
560	TERMINAL BOARD Assembly. Made from epoxy-glass laminate. Rectangular shape. Over-all dimensions 3.75 in. lg x 3.00 in. wide x 0.453 in. thick. Four mounting holes 0.125 in. dia, and twenty-three terminals.	TB501	MP10638	Ramo-Wooldridge	R-W Dwg. 50403330	1 Req. Per Complete Ass'y.		

EQUIPMENT (NOMENCLATURE)

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SHEET 103 OF SHEETS

NAME OF CONTRACTOR

The Ramo-Wooldridge Corporation

CONTRACT

R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
561	POST, TB501 Mounting. Made from brass. Rectangular shape. Over-all dimensions 3.50 in. lg x 0.25 in. wide x 0.25 in. high. Two holes 0.125 in. dia and tapped 4-40. One hole 0.089 in. dia x 0.50 in. deep drilled in end and tapped 4-40 x 0.375 in. deep. Cadmium plated.		MP10319	Ramo-Wooldridge	Item 2 R-W Dwg. 30403330	2 Req. Per Complete Ass'y.		
562	TERMINAL BOARD Assembly. Made from epoxy-glass laminate. Rectangular shape. Over-all dimensions 3.38 in. lg x 2.98 in. wide x 0.462 in. thick. Two holes 0.50 in. dia, four mounting holes 0.138 in. dia, and eighteen terminals.	TB509	MP10589	Ramo-Wooldridge	R-W Dwg. 50403332	1 Req. Per Complete Ass'y.		
563	BRACKET. Made from sheet steel. Over-all dimensions 11.688 in. lg x 10.562 in. wide x 0.562 in. high. A chassis bracket with two mounting slots 0.438 in. lg x 0.187 in. wide, with two mounting slots 0.375 in. lg x 0.203 in. wide, and with additional holes for mounting electrical components. Cadmium plated.		MP10514	Ramo-Wooldridge	R-W Dwg. 50403318	1 Req. Per Complete Ass'y.		
564	SPACER, Bracket. Made from sheet steel. Rectangular shape. Over-all dimensions 3.50 in. lg x 0.50 in. wide x 0.064 in. thick. Two holes 0.250 in. dia, 0.75 in. from each end. Cadmium plated.		MP10323	Ramo-Wooldridge	R-W Dwg. 50403358	1 Req. Per Ass'y.		

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EQUIPMENT (NOMENCLATURE)

MP10566 OF SYSTEM 1

SHEET 104 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
565	TERMINAL BOARD Assembly. Made from epoxy-glass laminate. Rectangular shape. Over-all dimensions 7.812 in. lg x 1.781 in wide x 0.125 in. thick. Four mounting holes 0.125 in. dia., and sixty-seven silver-plated eyelets.	TB507	MP10642	Ramo-Wooldridge	R-W Dwg. 50403324	1 Req. Per Complete Ass'y.		
566	POST, TB502 Mounting. Made from brass. Rectangular shape. Over-all dimensions 2.00 in. lg x 0.250 in. wide x 0.250 in. high. Two holes 0.125 in. dia. drilled and tapped through 4-40. One hole 0.125 in. dia drilled in one end and tapped 4-40 x 0.375 in. deep. Cadmium plated.		MP10414	Ramo-Wooldridge	Item 3 R-W Dwg. 50403324	2 Req. Per Complete Ass'y.		
567	TERMINAL BOARD Assembly. Made from epoxy-glass laminate. Rectangular shape. Over-all dimensions 4.50 in. lg x 1.31 in. wide x 0.453 in. thick. Two clamp mounting holes 0.166 in. dia, four mounting holes 0.140 in. dia, and ten terminals.	TB508	MP10580	Ramo-Wooldridge	R-W Dwg. 50403331	1 Req. Per Complete Ass'y.		
568	CHASSIS Assembly. Made from sheet steel. Over-all dimensions 20.21 in. lg x 18.06 in. wide x 16.00 in. high. Eight holes 2.50 in. dia four on each side, one rectangular hole 8.69 in. lg x 2.80 in. wide, one rectangular hole 7.19 in. lg x 2.80 in. wide, and mounting holes. Cadmium plated.		MP10516	Ramo-Wooldridge	R-W Dwg. 50403337	1 Req. Per Complete Ass'y.		

EQUIPMENT (NOMENCLATURE) MPI0566 OF SYSTEM 1

SHEET 105 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021 PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
569	THERMISTOR Assembly. Over-all dimensions 1.515 in. lg x 1.399 in. wide x 1.314 in. high. Consists of the following replaceable parts:		MP10496	Ramo-Wooldridge	R-W Dwg. 50403338	1 Req. Per Complete Ass'y.		
570	MOUNT, Thermistor. Made from aluminum. Over-all dimensions 1.515 in. lg x 1.000 in. wide x 1.502 in. high. A flange 0.125 in. wide on one end with two holes 0.093 in. dia counter-sunk, two holes 0.089 in. dia x 0.156 in. deep tapped 4-40 NC-2 x 0.125 in. deep, and two holes drilled 0.089 in. -dia and tapped through 4-40 NC-2. Remainder of mount is 1.390 in. lg x 0.578 in. wide x 1.125 in. high. Four holes 0.089 in. dia drilled and tapped through 4-40 NC-2. Three holes 0.106 in. dia drilled and tapped through 6-32 NC-2B.		MP10565	Ramo-Wooldridge	R-W Dwg. 50403078	1 Req. Per Ass'y.		
571	INSULATOR. Made from mica. Rectangular shape. Over-all dimensions 1.250 in. lg x 0.875 in. wide x 0.005 in. thick. Four holes, one in each corner, 0.125 in. dia.		MP10628	Ramo-Wooldridge	R-W Dwg. 50403339	1 Req. Per Ass'y.		

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 100 OF SHEETS

NAME OF CONTRACTOR The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
572	TERMINAL, Insulated. Over all dimensions 0.836 in. lg x 0.250 in. dia. Threaded 6-32 for length of 0.125 in., flanged to 0.250 in. dia for length of 0.349 in.		MP10322	U.S. Engineering (Modified Per R-W Dwg 10403480)	1400B	2 Req. Per Ass'y.		
573	THERMISTOR, Coaxial. Over-all dimensions 1.515 in. lg x 1.399 in. wide x 1.814 in. high. 500-10, 500 mc/s.	RT502	MP20391	F-R Machine Works	N215A	1 Req. Per Ass'y.		
574	THERMISTOR, Disc. Semi-conducting disc soldered to a metal plate and provided with a wire lead. Over-all dimensions 1.25 in. lg x 0.875 in. wide x 0.312 in. high. Resistance at 25° C, 725 ohms, + 5%.	RT503	MP20396	Victory Engineering	27D1	1 Req. Per Ass'y.		
575	THERMISTOR, Disc. Semi-conducting disc soldered to a metal plate and provided with a wire lead. Over-all dimensions 1.25 in. lg x 0.875 in. wide x 0.312 in. high. Resistance at 25° C, 760 ohms, + 5%.	RT501	MP22066	Victory Engineering	28D1	1 Req. Per Ass'y.		

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 107 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation, CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
576	FRAME. Made of sheet aluminum. Rectangular shape. Over-all dimensions 10.63 in. lg x 6.13 in. wide x 0.125 in. thick. A centered rectangular hole 8.875 in. lg x 6.375 in. wide. Six mounting holes 0.188 in. dia. Blackened.		MP10581	Ramo-Wooldridge	R-W Dwg. 50403314	1 Req. Per Complete Ass'y.		
577	GASKET. Made from synthetic rubber. Same size and shape as FRAME (MP10581).		MP10517	Ramo-Wooldridge	R-W Dwg. 50403342	1 Req. Per Complete Ass'y.		
578	ATTENUATOR Assembly. Over-all dimensions 4.688 in. lg x 1.5 in. wide. Consists of the following replaceable parts:		MP10637	Ramo-Wooldridge	R-W Dwg. 50403343	1 Req. Per Complete Ass'y.		
579	ATTENUATOR. Rectangular shape. Over-all dimensions 4.688 in. lg x 1.5 in. wide x 2 in. high. Four holes 0.50 in. dia, two holes 0.047 in. dia tapped #0-80 NF-2B x 0.250 in. deep.	AT501	MP10562	Polytechnic R & D (Modified per R-W Dwg. 50403315;	R-W Dwg. 50403315	1 Req. Per Ass'y.		
580	KEY. Made from steel. Over-all dimensions 0.062 in. thick x 0.625 in. dia. One slot 0.459 in. lg x 0.187 in. wide, two holes 0.070 in. dia countersunk. Cadmium plated.		MP10523	Ramo-Wooldridge	R-W Dwg. 50403310	1 Req. Per Ass'y.		



EQUIPMENT (NOMENCLATURE) MP 10566 OF SYSTEM 1

SHEET 108 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
581	COAXIAL CABLE Assembly. Over-all dimensions 8.25 in. lg x 0.562 in. dia. Consists of the following replaceable parts:		MP10510	Ramo-Wooldridge	R-W Dwg. 50403344	1 Req. Per Complete Ass'y.		
582	CABLE, Coaxial. Over-all dimensions 6.75 in. lg x 0.375 in. dia.		MP62999	American Phenolic	21-024	1 Req. Per Ass'y.		RG-58/U
583	TERMINATOR, Coaxial Cable. Over-all dimensions 0.50 in. lg x 0.656 in. wide x 0.484 in. high. Has hex nut, 0.212 in. accross facings, on one end. Terminator is mounted on a strap having one hole.		MP63022	Industrial Products	3975	1 Req. Per Ass'y.		
584	FLUG, Coaxial. Over-all dimensions 1.00 in. lg x 0.562 in. dia. Bayonet-lock plug.		MP62018	American Phenolic	Series BNC 31-018	1 Req. Per Ass'y.		UG-88 B/U
585	COAXIAL CABLE Assembly. Over-all dimensions 14.125 in. lg x 0.812 in. wide x 0.812 in. high. Consists of the following replaceable parts:		MP62382	Ramo-Wooldridge	R-W Dwg. 50403345-1	1 Req. Per Complete Ass'y.		
586	CABLE, Coaxial. Over-all dimensions 10.50 in. lg x 0.625 in. dia.		MP63023	American Phenolic	21-001	1 Req. Per Ass'y.		RG-5/U

EQUIPMENT (NOMENCLATURE)		MP10566 OF SYSTEM 1				SHEET 109 OF SHEETS		
NAME OF CONTRACTOR		The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021				PARTS DATA LIST		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
587	JACK, Coaxial Panel. Over-all dimensions 1.938 in. lg x 0.656 in. (diagonally across flange).	J504	MP63024	American Phenolic	Series N 82-95	1 Req. Per Ass'y. (3/Eqp't.)		UG-22 C/U
588	PLUG, Coaxial. Over-all dimensions 1.75 in. lg x 0.812 in. dia.		MP62998	American Phenolic	Series N 82-96	1 Req. Per Ass'y. (1/Eqp't.)		UG-21 C/U
589	COAXIAL CABLE Assembly. Over-all dimensions 7.375 in. lg x 0.312 in. wide x 0.812 in. high. Consists of the following replaceable parts:		MP62387	Ramo-Wooldridge	R-W Dwg. 30403345-2	2 Req. Per Complete Ass'y.		
590	CABLE, Coaxial. Over-all dimensions 4 in. lg x 0.625 in. dia.		MP63023	American Phenolic	21-001	1 Req. Per Ass'y.		RG-5/U
591	JACK, Panel. Same as J 504.	J 502 or J 503				1 Req. Per Ass'y.		
592	PLUG, Coaxial. Over-all dimensions 1.50 in. lg x 0.75 in. dia.		MP62023	American Phenolic	Series N 82-203	1 Req. Per Ass'y. (6/Eqp't.)		UG-13 C/U

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 110 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
593	COAXIAL CABLE Assembly. Over-all dimensions 19 in. lg x 0.75 in. dia. Consists of the following replaceable parts:		MP62019	Ramo-Wooldridge	R-W Dwg. 50403345-3	1 Req. Per Complete Ass'y.		
594	CABLE, Coaxial. Over-all dimensions 17.5 in. lg x 0.375 in. dia.		MP63023	American Phenolic	21-001	1 Req. Per Ass'y.		RG-5/U
595	PLUG, Coaxial. Over-all dimensions 1.50 in. lg x 0.75 in. dia.		MP62023	American Phenolic	Series N 82-203	2 Req. Per Ass'y.		UG-18 C/U
596	COAXIAL CABLE Assembly. Over-all dimensions 5.5 in. lg x 0.75 in. dia. Consists of the following replaceable parts:		MP62029	Ramo-Wooldridge	R-W Dwg. 50403345-4	1 Req. Per Ass'y.	Complete	
597	CABLE, Coaxial. Over-all dimensions 4.25 in. lg x 0.375 in. dia.		MP63023	American Phenolic	21-001	1 Req. Per Ass'y.		RG-5/U
598	PLUG, Coaxial. Over-all dimensions 1.50 in. lg x 0.75 in. dia.		MP62023	American Phenolic	Series N 82-203	1 Req. Per Ass'y.		UG-18 C/U
599	CONNECTOR, Coaxial.		MP62365			1 Req. Per Ass'y. (2/Eqp't.)		UG-276/U

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

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SHEET 111 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation

CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
600	COAXIAL CABLE Assembly. Over-all dimensions 13 in. lg x 0.75 in. dia. Consists of the following replaceable parts:		MP62031	Ramo-Wooldridge	R-W Dwg. 50403345-5	1 Req. Per. Ass'y.	Complete	
601	CABLE, Coaxial. Over-all dimensions 11.5 in. lg x 0.375 in. dia.		MP63023	American Phenolic	21-001	1 Req. Per. Ass'y.		RG-5/U
602	PLUG, Coaxial. Over-all dimensions 1.50 in. lg x 0.75 in. dia.		MP62023	American Phenolic	Series N 32-203	1 Req. Per. Ass'y.		UG-18 C/U
603	CONNECTOR, Coaxial.		MP62385			1 Req. Per. Ass'y.		UG-276/U

SHEET 112 OF SHEETS

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

NAME OF CONTRACTOR The Remo-Wooldridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
604	ATTENUATOR, Coaxial, 3.25 in. lg x 0.375 in. dia, coaxial connectors at each end, 20 decibel attenuation.	AT503	MP67503	Polytechnic R and D	Type 130D	1		
605	MOTOR, dual-blower, single-phase, 60 cps, 115 vac.	B501	MP10321	Air Marine Motors	Type B10B-40	1		
606	CAPACITOR, fixed, dual-electrolytic, 2.750 in. lg x 1.375 in. dia, 20/20 mfd, 450 vdcw.	C501A and C501B	MP33440	Sprague	SF-CE42-200R	3		
607	CAPACITOR, fixed, hermetically sealed, 1.125 in. lg x 0.400 in. dia, 0.1 mfd, +10%, 200 vdcw, +125C to -55C operating temperature.	C503	MP33441	Hopkins	HY-THERM 1K2104K	8		
608	Same as C503	C504						
609	Same as C501	C506A and C506B						
610	CAPACITOR, fixed, hermetically sealed, 1.125 in. lg x 0.562 in. dia, 0.1 mfd, +10%, 400 vdcw, +125C to -55C operating temperature.	C508	MP30067	Hopkins	HY-THERM 1K4104K	1		
611	Same as C501	C509						

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 113 OF SHEETS

NAME OF CONTRACTOR The RANDOLPH Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
612	CAPACITOR, fixed, electrolytic, 2.75 in. lg x 1.375 in. dia, 20 mfd, 400 vdcw	C511	MP33442	Sprague	SP-CE31-200C	1		
613	Same as C503	C512						
614	CAPACITOR, fixed, paper-diel- electric, 6.125 in. lg x 2.062 in. wide x 1.063 in. thick, 5 mfd, + 10%, 600 vdcw, +85C to -55C operating temperature	C513	MP33443	Cornell- Dubilier	TJH 6050	1		
615	CAPACITOR, fixed, paper diel- electric, 5.063 in. lg x 4.750 in. wide x 2.312 in. thick, 4 mfd, + 10%, 2000 vdcw, +85C to -55C operating temperature	C514	MP33444	Cornell- Dubilier	TJU20040	2		
616	Same as C514	C516						
617	CAPACITOR, fixed, paper diel- electric, 3.937 in. lg x 4.750 in. wide x 2.312 in. thick, 0.5 mfd, + 10%, 1500 vdcw, +85C to -55C operating temperature	C517	MP33445	Cornell- Dubilier	TJU 15005	1		
618	CAPACITOR, fixed, hermetically sealed, 2.125 in. lg x 0.750 in. dia, 1.0 mfd, + 10%, 200 vdcw, +125C to -55C operating tempera- ture	C518	MP33446	Hopkins	HY-THERM IK2105K	2		
619	Same as C503	C519						

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 114 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
620	Same as C518	C521						
621	CAPACITOR, fixed, paper dielectric, 4.875 in. lg x 2.625 in. wide, x 1.125 in. thick, 2 mfd, +10%, 1000 vdcw, +85C to -55C operating temperature	C522	MP33447	Cornell-Dubilier	TJU 10020J	1		
622	Same as C503	C523						
623	Same as C503	C524						
624	Same as C503	C526						
625	Same as C503	C527						
626	CAPACITOR, fixed, sub-miniature, paper dielectric, 1.375 in. lg x 0.400 in. dia, 0.1 mfd, +20%, 400 vdcw, to 85C operating temperature	C528	MP33448	Sprague	96P10404S2	1		
627	CAPACITOR, fixed, hermetically sealed, 0.750 in. lg x 0.235 in. dia, 0.001 mfd, +10%, 600 vdcw, +125C to -55C operating temperature	C601	MP33449	Hopkins	HY-THERM 1K6102K	4		
628	CAPACITOR, fixed, electrolytic, 2.75 in. lg x 1.375 in. dia, 20 mfd, 400 vdcw	C602	MP33450	Sprague	SP-CE31-200Q	1		
629	CAPACITOR, fixed, silver mica, 0.688 in. lg x 0.438 in. wide x 0.219 in. thick, 0.001 mfd, ± 5% 500 vdcw.	C603	MP38957	El Menco	CM-19-102	2		

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1						SHEET 115 OF SHEETS		
NAME OF CONTRACTOR The Ramo-Wouldridge Corporation CONTRACT R-W P-Project 5021						PARTS DATA LIST		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
630	CAPACITOR, fixed, silver mica, 0.781 in. lg x 0.438 in. wide x 0.219 in. thick, 0.002 mfd, + 5%, 500 vdcw	C604	MP30063	El Menco	CM-23-202	3		
631	CAPACITOR, fixed, silver mica, 0.812 in. lg x 0.812 in. wide x 0.156 in. thick, 0.003 mfd, + 5%, 500 vdcw	C606	MP30032	El Menco	CM-30-302	2		
632	CAPACITOR, fixed, silver mica, 0.812 in. lg x 0.812 in. wide x 0.156 in. thick, 0.0062 mfd, + 5%, 500 vdcw	C607	MP30037	El Menco	CM-30-622	2		
633	CAPACITOR, fixed, silver mica, 0.812 in. lg x 0.812 in. wide x 0.344 in. thick, 0.0091 mfd, + 5%, 300 vdcw	C608	MP30050	El Menco	CM-35-912	2		
634	Same as C603	C609						
635	Same as C604	C611						
636	Same as C606	C612						
637	Same as C607	C613						
638	Same as C608	C614						
639	CAPACITOR, fixed, hermetic-ally sealed, 1.125 in. lg x 0.562 in. dia, 0.10 mfd, + 10%, 400 vdcw, +125C to -55C operating temperature	C616	MP30067	Hopkins	HY-THERM 1K4104K	1		



EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 116 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
640	CAPACITOR, fixed, hermetically sealed, 2.125 in. lg x 0.750 in. dia, 1.0 mfd, + 10%, 200 vdcw, +125C to -55C operating temperature	C617	MP33451	Hopkins	HY-THERM 1K2105K	1		
641	CAPACITOR, fixed, hermetically sealed, 0.875 in. lg x 0.400 in. dia, 0.022 mfd, + 10%, 400 vdcw, +125C to -55C operating temperature	C618	MP30023	Hopkins	HY-THERM 1K4223K	2		
642	CAPACITOR, fixed, miniature electrolytic, 1.063 in. lg x 0.375 in. dia, 50 mfd, 6 vdcw	C619	MP30038	Cornell-Dubilier	CD-BBR-50-6	1		
643	CAPACITOR, fixed, silver mica, 0.281 in. lg x 0.500 in. wide x 0.188 in. thick, 20 mmf, + 5%, 500 vdcw	C621	MP30026	El Menco	CM-15-200	2		
644	CAPACITOR, fixed, miniature electrolytic, 1.063 in. lg x 0.375 in. dia, 10 mfd, 25 vdcw	C622	MP30324	Cornell-Dubilier	CD-BBR-10-25	1		
645	CAPACITOR, fixed, flat disc ceramic, 0.594 in. dia, 0.02 mfd, 600 vdcw	C623	MP30041	Erie	817-.02	1		
646	Same as C618	C624						

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 117 OF SHEETS

NAME OF CONTRACTOR The Radio-Woodbridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
647	CAPACITOR, fixed, silver mica, 0.781 in. lg x 0.438 in. wide x 0.219 in. thick, 820 mmf, $\pm 5\%$ , 500 vdcw	C626	MP33452	El Menco	CM-20-821	1		
648	Same as C601	C627						
649	CAPACITOR, fixed, silver mica, 0.781 in. lg x 0.438 in. wide x 0.219 in. thick, 560 mmf, $\pm 5\%$ , 500 vdcw	C628	MP33453	El Menco	CM-20-561	1		
650	CAPACITOR, fixed, silver mica, 0.781 in. lg x 0.438 in. wide x 0.219 in. thick, 150 mmf, $\pm 5\%$ , 500 vdcw	C629	MP33454	El Menco	CM-20-151	1		
651	Same as C601	C631						
652	CAPACITOR, fixed, silver mica, 0.500 in. lg x 0.281 in. wide x 0.188 in. thick, 50 mmf, $\pm 5\%$ , 500 vdcw	C632	MP33455	El Menco	CM-15-500	1		
653	Same as C621	C633						
654	Same as C601	C634						
655	CAPACITOR, fixed, silver mica, 0.500 in. lg x 0.281 in. wide x 0.188 in. thick, 30 mmf, $\pm 5\%$ , 500 vdcw	C636	MP30060	El Menco	CM-15-300	1		
656	Same as C604	C637						

EQUIPMENT (NOMENCLATURE) MP 10506 OF SYSTEM 1

SHEET 118 OF SHEETS

NAME OF CONTRACTOR The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
657	CAPACITOR, fixed, plastic film dielectric, 2.25 in. lg x 0.75 in. dia, 0.375 in. lg. 8-32 threaded connecting studs at each end, 0.05 mfd, 3000 vdcw	C633	MP38961	Plastic Capacitor	OF30-503	1		
658	DIODE, silicon junction, 0.265 in. lg x 0.125 in. dia, 1.25-in. - lg axial lead at each end.	CR501 through CR513	MP55018 (except 505, 513)	Transitron	IN 34A	13		
659	DIODE, silicon junction, 0.265 in. lg x 0.105 in. dia, 1.125 in. lg axial lead at each end.	CR514 through CR518	MP55020 (except 515)	Hughes	6003	5		
660	DIODE, germanium, 0.265 in. lg x 0.105 in. dia	CR601	MP55010	Hughes	IN99	2		
661	Same as CR 601	CR602						
662	LAMP ASSEMBLY, dial, screw-in cap, green convex lens, two soldering lugs.	DS501	MP59114	Dialight	#81410-112	1		
663	FUSE, 1.25 in. lg x 0.25 in. dia, 3 amp, 125 volt	F501	MP57005	Littelfuse	Slo-Blo #313003	2		
664	Same as F501	F502						

EQUIPMENT (NOMENCLATURE)		MPI0566 OF SYSTEM 1		Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0		SHEET 119 OF SHEETS		
NAME OF CONTRACTOR		The Ramo-Wooldridge Corporation		CONTRACT		R-W Project 5021		
PARTS DATA LIST								
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
665	JACK, power, non-polarized, male receptacle 15 amp.	J501	MP62027	American Phenolic	#61M10	1		
666	JACK, coaxial, 1.031 in. lg with 0.688 in. sq. flange, four 3-56 thread mounting holes.	J601	MP62032	American Phenolic	Series BNC 31-003	2		UG-290/U
666A	Same as J601	J602						
667	RELAY, thermal, time delay, 2.50 in. lg (less pins) x 0.875 in. dia, 9-pin miniature base.	K501	MP68005	Amperite	6N060T	1		
668	RELAY, electro-magnetic, 4 pole, single throw, 115 vac, 60 cps coil.	K502	MP68010	Leach	2124MX	1		
669	COIL, choke, solenoid wound case 3.875 in. lg x 3.562 in. wide x 3.125 in. thick, four 0.375 in. lg, 8-32 thread mounting studs, 15 henries, 120 ma	L501	MP40017	Triad	HSM 307	2		
670	Same as L501	L502						
671	COIL, r-f choke, solenoid wound 15/16 in. lg x 9/32 in. dia, 68 microhenries, 750 milliamp	L503	MP40006	Jeffers	10404-40	4		

Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 120 OF SHEETS

NAME OF CONTRACTOR The Rank &amp; Woodbridge Corporation

Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0  
CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
672	Same as L503	L504						
673	Same as L503	L506						
674	Same as L503	L507						
675	COIL, choke, 1 millihenry 75 ma	L501	MP40023	National	150	2		
676	Same as L601	L602						
677	COIL, choke, variable, mounted on 1.063 in. lg x 0.375 in. dia form, 750 to 1400 microhenry range.	L603	MP40026	Miller	4413	1		
678	METER, over-all dimensions 3.50 in. dia x 2.50 in. lg, 200 microamp movement. Scale modified to read R.F. WATTS.	M501	MP66501	Roller-Smith	Model TDGR	1		
679	RESISTOR, fixed, composition 470,000 ohms, $\pm 5\%$ , 2 watt.	R501	MP20375	Allen-Bradley	HB	14		RC 41GF 474
680	Same as R501	R502						
681	Same as R501	R503						
682	Same as R501	R504						
683	Same as R501	R506						

EQUIPMENT (NOMENCLATURE) MPI0566 OF SYSTEM 1

SHEET 121 OF SHEETS

NAME OF CONTRACTOR The Radio Wirelance Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
684	Same as R501	R507						
685	Same as R501	R508						
686	Same as R501	R509						
687	RESISTOR, fixed composition, 510 ohms, $\pm 5\%$ , 2 watt	R511	MP20015	Allen-Bradley	HB	9		RC 41 GF 511 J
688	RESISTOR, fixed wirewound, 2500 ohms, $\pm 5\%$ , 25 watt	R512	MP20050	Sprague	Koolohm 25 NIT	2		
689	RESISTOR, fixed, wirewound 7500 ohms, $\pm 5\%$ , 5 watt.	R513	MP20056	Sprague	Koolohm 5KT	2		
690	RESISTOR, fixed, composition, 150,000 ohms, $\pm 5\%$ , 1/2 watt	R514	MP20320	Allen-Bradley	EB	3		RC 20 GF 154 J
691	Same as R514	R516						
692	Same as R501	R517						
693	Same as R501	R518						
694	RESISTOR, fixed, composition, 100 ohm, $\pm 5\%$ , 1 watt	R519	MP20192	Allen-Bradley	GB	1		RC 30GF 101 J

EQUIPMENT (NOMENCLATURE)

MP10566 OF SYSTEM 1

SHEET 122 OF SHEETS

NAME OF CONTRACTOR The Ramo-Woolridge Corporation

Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0  
CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
695	Same as R511	R521						
696	Same as R511	R522						
697	RESISTOR, fixed, composition, 100,000 ohms, + 5%, 1/2 watt	R523	MP20296	Allen-Bradley	EB	6		RC 20 GF 104 J
698	Same as R512	R524						
699	RESISTOR, variable, wirewound, 1000 ohms, 2 watt	R526	MP20007	Ohmite	AB CU 1021	1		
700	RESISTOR, fixed, composition, 33 ohms, + 5%, 1/2 watt	R527	MP20230	Allen-Bradley	EB	1		RC 20 GF 330 J
701	Same as R511	R528						
702	Same as R511	R529						
703	RESISTOR, fixed, composition, 13,000 ohms, + 5%, 1 watt	R531	MP20240	Allen-Bradley	GB	1		RC 30 GF 133 J
704	RESISTOR, fixed, composition, 5,100 ohms, + 5%, 1 watt	R532	MP20321	Allen-Bradley	GB	1		RC 30 GF 512 J
705	Same as R511	R533						

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1 SHEET 123 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021 PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
706	Same as R511	R534						
707	RESISTOR, fixed, wirewound, 10,000 ohms, $\pm$ 5%, 5 watt	R536	MP20049	Sprague	Koolohm 10 KT	1		
708	Same as R511	R537						
709	RESISTOR, fixed, composition, 2 megohms, $\pm$ 5%, 2 watt	R538	MP20016	Allen-Bradley	HB	1		RC 41 GF 205 J
710	Same as R511	R539						
711	RESISTOR, fixed, composition, 1.2 megohms, $\pm$ 5%, 2 watt	R541	MP20017	Allen-Bradley	HB	1		RC 41 GF 125 J
712	RESISTOR, variable, wirewound, 100,000 ohms, 2 watt	R542	MP20057	Ohmite (modified per R-W Dwg. 50403329-3)	Type AB CU 1041	5		
713	Same as R523	R543						
714	RESISTOR, fixed, composition, 6,800 ohms, $\pm$ 5%, 2 watt	R544	MP20020	Allen-Bradley	HB	1		RC 41 GF 682J
715	RESISTOR, fixed, wirewound, 35,000 ohms, 50 watt	R546	MP20018	Sprague	Koolohm 0419	1		



EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 124 OF SHEETS

NAME OF CONTRACTOR The RANDOLPH Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
716	RESISTOR, fixed, wirewound, 4,000 ohms, 5 watt	R547	MP20022	Sprague	Koolohm KT5	1		
717	RESISTOR, variable, 5,000 ohms, 2 watt	R548	MP20008	Ohmite (modified per R-W Dwg. 50403329-1)	Type AB CLU 5021	1		
718	RESISTOR, fixed, composition, 5,000 ohms, + 5%, 2 watt	R549	MP20019	Allen - Bradley	HB	1		RC 41 GF 502 J
719	RESISTOR, fixed, wirewound, 6,000 ohms, 10 watt	R551	MP20033	Sprague	Koolohm 10KT	1		
720	RESISTOR, variable, 10,000 ohms, 2 watt	R552	MP20032	Ohmite (modified per R-W Dwg. 5040 3329 -2 )	Type AB CLU 1031	1		
721	Same as R514	R553						
722	Same as R523	R554						
723	Same as R523	R556						
724	Same as R542	R557						
725	Same as R542	R558						

EQUIPMENT (NOMENCLATURE) MPI0566 OF SYSTEM 1

SHEET 125 OF SHEETS

NAME OF CONTRACTOR The Radio Shack Corp. 1999/09/08 : CIA-RDP81B00878R000200040001-0

CONTRACT

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
726	RESISTOR, fixed. composition, 4,300 ohms, $\pm 5\%$ , 1/2 watt	R559	MP2C218	Allen-Bradley	EB	1		PC 20 GF 432 J
727	Same as R542	R561						
728	Same as R542	R562						
729	Same as R513	R563						
730	Same as R523	R564						
731	Same as R523	R566						
732	Same as R501	R567						
733	Same as R501	R568						
734	Same as R501	R569						
735	Same as R501	R571						
736	RESISTOR, fixed, wirewound, 200 ohms, $\pm 1\%$ , 1/2 watt	R572	MP20065	Cinema	R-LIE	3		
737	Same as R572	R573						
738	Same as R572	R574						

EQUIPMENT (NOMENCLATURE) MPI0566 OF SYSTEM 1

SHEET 126 OF SHEETS

NAME OF CONTRACTOR The Remington-Union Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
739	RESISTOR, fixed, wirewound, 800 ohms, $\pm 1\%$ , 1/2 watt	R576	MP20062	Rycor	Type 507A	3		
740	Same as R576	R577						
741	Same as R576	R578						
742	RESISTOR, fixed, wirewound, 150 ohms, $\pm 1\%$ , 1/2 watt	R579	MP20034	Cinema	R-111E	1		
743	RESISTOR, fixed, wirewound, 3000 ohms, $\pm 1\%$ , 1/2 watt	R581	MP20042	Cinema	R-111E	1		
744	RESISTOR, fixed, wirewound, 50,000 ohms, $\pm 5\%$ , 1/2 watt	R601	MP20055	Cinema	R-111E	2		
745	RESISTOR, fixed, composition, 560 ohms, $\pm 5\%$ , 1/2 watt	R602	MP20334	Allen-Bradley	EB	1		RC20GF561J
746	Same as R601	R603						
747	RESISTOR, fixed, composition, 6800 ohms, $\pm 5\%$ , 1/2 watt	R604	MP20254	Allen-Bradley	EB	1		RC20GF682J
748	RESISTOR, fixed, composition, 4300 ohms, $\pm 5\%$ , 1/2 watt	R606	MP20218	Allen-Bradley	EB	2		RC20GF432J
749	RESISTOR, fixed, composition, 510,000 ohms, $\pm 5\%$ , 1/2 watt	R607	MP20175	Allen-Bradley	EB	1		RC20GF514J
750	RESISTOR, fixed, composition, 2400 ohms, $\pm 5\%$ , 1/2 watt	R608	MP20123	Allen-Bradley	EB	1		RC20GF242J

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 127 OF SHEETS

NAME OF CONTRACTOR The RANDOLPH-WOODBRIDGE CORPORATION CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
751	RESISTOR, fixed, composition, 180 ohms, $\pm 5\%$ , 1/2 watt	R609	MP20161	Allen-Bradley	EB	1		RC20GF161J
752	RESISTOR, fixed, composition, 240,000 ohms, $\pm 5\%$ , 1/2 watt	R611	MP20168	Allen-Bradley	EB	3		RC20GF244J
753	RESISTOR, fixed, composition, 10 megohms, $\pm 5\%$ , 1/2 watt	R612	MP20130	Allen-Bradley	EB	1		RC20GF106J
754	RESISTOR, fixed, composition, 100,000 ohms, $\pm 5\%$ , 1/2 watt	R613	MP20296	Allen-Bradley	EB	4		RC20GF104J
755	RESISTOR, fixed, composition, 390 ohms, $\pm 5\%$ , 1/2 watt	R614	MP20112	Allen-Bradley	EB	1		RC20GF391J
756	RESISTOR, fixed, composition, 75,000 ohms, $\pm 5\%$ , 1/2 watt	R616	MP20380	Allen-Bradley	EB	1		RC20GF753J
757	Same as R611	R617						
758	RESISTOR, fixed, composition, 27,000 ohms, $\pm 5\%$ , 1/2 watt	R618	MP20325	Allen-Bradley	EB	1		RC20GF273J
759	RESISTOR, fixed, composition, 200,000 ohms, $\pm 5\%$ , 1/2 watt	R619	MP20238	Allen-Bradley	EB	1		RC20GF204J
760	Same as R613	R621						
761	RESISTOR, fixed, composition, 300,000 ohms, $\pm 5\%$ , 1/2 watt	R622	MP20172	Allen-Bradley	EB	1		RC20GF304J
762	RESISTOR, fixed, composition, 1500 ohms, $\pm 5\%$ , 1/2 watt	R623	MP20119	Allen-Bradley	EB	2		RC20GF152J

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 120 OF SHEETS

NAME OF CONTRACTOR The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0  
The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0 CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
763	Same as R613	R624						
764	RESISTOR, fixed, composition, 3000 ohms, $\pm 5\%$ , 1/2 watt	R626	MP20138	Allen-Bradley	EB	1		RC20GF302J
765	RESISTOR, fixed, composition, 20,000 ohms, $\pm 5\%$ , 1/2 watt	R627	MP20367	Allen-Bradley	EB	1		RC20GF203J
766	RESISTOR, fixed, composition, 5100 ohms, $\pm 5\%$ , 1/2 watt	R628	MP20116	Allen-Bradley	EB	1		RC20GF512J
767	Same as R623	R629						
768	Same as R606	R631						
769	RESISTOR, variable, wire-wound, 25,000 ohms, 2 watt	R632	MP20052	Ohmite	Type AC CLU-2531	1		
770	RESISTOR, fixed, composition, 20,000 ohms, $\pm 5\%$ , 2 watt	R633	MP20027	Allen-Bradley	EB	1		RC41GF203J
771	Same as R613	R634						
772	RESISTOR, fixed, composition, 6200 ohms, $\pm 5\%$ , 1 watt	R636	MP20293	Allen-Bradley	GB	1		RC30GF622J
773	Same as R611	R637						
774	RESISTOR, fixed, composition, 68 ohms, $\pm 5\%$ , 1/2 watt	R638	MP20114	Allen-Bradley	EB	1		RC20GF680J

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 122 OF SHEETS

NAME OF CONTRACTOR The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

CONTRACT

R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
775	LAMP, ballast, candelabra base 6 watt, 125 volt	RT601	MP59110	General Electric		1		
776	SWITCH, toggle, double pole, single throw, 15 amp, 125 volts	S501	MP60009	J.D.T. Instrument	ST-52K	1		
777	SWITCH Assembly, rotary, shorting, 3 pole, 3 position, 60° indexing	S507ABC	MP60013	Centralab (Modified Per R-W Dwg. 50403355)	Switch Assy. P-170 Indexing Assy.	2		
778	Same as S502	S503AB						
779	SWITCH Assembly, rotary, shorting, 2 section, 2 pole, 5 position, 30° indexing	S601AB	MP60017	Centralab (Modified Per R-W Dwg. 50403354)	PA-2 Switch Assy. PA-300 Indexing Assy	1		
780	TRANSFORMER, power	T501	MP58015	Rayco	1950	1		
781	TRANSFORMER, power,	T502	MP58013	Rayco	1961	1		
782	ELECTRON TUBE	V501	MP47323	RCA	OA2	5		
783	Same as V501	V502						
784	ELECTRON TUBE	V503	MP47324	RCA	OB2	4		

EQUIPMENT (NOMENCLATURE) MPI0566 OF SYSTEM 1

SHEET 130 OF SHEETS

NAME OF CONTRACTOR The RAND-Woodbridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
785	Same as V503	V504						
786	ELECTRON TUBE	V506	MP47330	RCA	836	2		
787	Same as V506	V507						
788	ELECTRON TUBE	V508	MP47341	RCA	829-B	1		
789	ELECTRON TUBE	V509	MP47338	RCA	6SJ7	1		
790	Same as V501	V511						
791	ELECTRON TUBE	V512	MP47334	RCA	5R4GY	1		
792	Same as V501	V513						
793	Same as V501	V514						
794	Same as V503	V516						
795	Same as V503	V517						
796	ELECTRON TUBE	V518	MP45004	Sperry	2K32	1		
797	ELECTRON TUBE	V519	MP45005	Sperry (Modified Per R-W Dwg. 50403311)	2K41	1		
798	ELECTRON TUBE	V601	MP45022	RCA	5654	2		

EQUIPMENT (NOMENCLATURE) MP10563 OF SYSTEM 1

SHEET 131 OF SHEETS

NAME OF CONTRACTOR The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
799	Same as V601	V602						
800	ELECTRON TUBE	V603	MP45015	RCA	6U8	1		
801	ELECTRON TUBE	V604	MP45032	RCA	2D21	1		
802	ELECTRON TUBE	V606	MP45024	RCA	5670	1		
803	SOCKET, electron tube, 9-pin	XV501	MP47332	Elco	TS102C01	10		
804	Same as XV501	XV502						
805	Same as XV501	XV503						
806	Same as XV501	XV504						
807	SOCKET, electron tube, 4-pin	XV506	MP47335	American Ceramic	148-01	2		
808	Same as XV506	XV507						
809	SOCKET, electron tube	XV508	MP47342	E. F. Johnson	122-101	1		
810	SOCKET, electron tube, 8-pin	XV509	MP47345	Elco	TS101CO2	3		
811	Same as XV501	XV511						
812	Same as XV509	XV512						



EQUIPMENT (NOMENCLATURE) MP10366 OF SYSTEM 1

SHEET 132 OF SHEETS

NAME OF CONTRACTOR The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
013	Same as XV501	XV513						
014	Same as XV501	XV514						
015	Same as XV501	XV516						
016	Same as XV501	XV517						
017	Same as XV509	XV510						
018	Same as XV501	XV519						
019	SOCKET, electron tube, 7-pin	XV601	MP47347	Elco	TS102C01	3		
020	Same as XV601	XV602						
021	SOCKET, electron tube, 9-pin	XV603	MP47332	Elco	TS103C01	2		
022	Same as XV601	XV604						
023	Same as XV603	XV605						
023A	METER, frequency, micrometer dial, two type UG-23/U connectors, 2.4 - 4.0 kmc frequency range	M503	MP66504	Microwave Associates	MA-547	1 Req. Per Ass'y.		
023B	METER, frequency, direct reading, type UG-39/U flange, type RG-52/U waveguide, 3.20 to 12.40 kmc frequency range	M504	MP66508	F-R Machine	X410A	1 Req. Per Ass'y.		

EQUIPMENT (NOMENCLATURE) MP10566 OF SYSTEM 1

SHEET 133 OF SHEETS

NAME OF CONTRACTOR The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

CONTRACT

R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
324	OSCILLOSCOPE, Cathode-Ray. Rectangular case. Over-all dimensions 17 in. lg x 6.75 in. wide x 10 in. high. Has a 3.00 in. dia screen and controls mounted on front panel. Power requirements 105-125 volts. Blue perforated case.		MP68320	Tektronix	Model 310	1 Req. Per Complete Assy.		

## EQUIPMENT (NOMENCLATURE) RE-RECORD EQUIPMENT

SHEET 134 OF SHEETS

NAME OF CONTRACTOR The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0

PARTS DATA LIST

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ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
325	GROUND-LEASED RE-RECORD EQUIPMENT. A group of units and interconnecting cables assembled as shown in figure 1-4 and figure 1-24 of System 1 instruction guide (MP10010). The complete equipment includes the following replaceable parts and assemblies:			Ampex (Modified by Ramo-Wooldridge)				
326	MP10311, COMPLETE ASSEMBLY OF RECORD-AND-PLAYBACK AMPLIFIERS AND MOUNTING RACK. Over-all dimensions 23.75 in. high x 23.5 in. wide x 13 in. deep. Model 350-3P appears on nameplate of case. Includes the following replaceable parts and assemblies:		MP10311	Ampex (Modified by Ramo-Wooldridge)		1		
327	AMPLIFIER, Master Record-and-Playback		MP10306	Ampex (Modified)	5701R3-1 (Modified Per figure 1-26 and 5-18 of System 1 Instruction Guide, MP10010)	1		
328	AMPLIFIER, Slave Record-and-Playback.		MP10116	Ampex (Modified)	5701R3-3 (Modified Per figure 1-26 and 5-18 of System 1 Instruction Guide, MP10010)	2		

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE

	In addition to the amplifier parts listed in the Ampex Operation-and-Maintenance Manual, the following replaceable modification parts are used in the amplifiers:							
829	CAPACITOR, fixed, paper dielectric, 1.56 in. lg x 0.625 in. dia, 2 mfd, 200 vdcw, 70° C operating temperature	C1302	MP30069	Aerovox	P82	3		
830	CAPACITOR, fixed, paper dielectric, 0.625 in. lg x 0.31 in. dia, 0.05 mfd, 200 vdcw	C1303	MP30034	Aerovox	P8	3		
831	RESISTOR, fixed, composition, 470,000 ohms, $\pm 5\%$ , 1/2 watt	R1301	MP20375	Allen-Bradley	EB	3		RC20GF474
832	RESISTOR, fixed, composition, 1.5 megohms, $\pm 5\%$ , 1/2 watt	R1302	MP20275	Allen-Bradley	EB	3		RC20GF1500
833	RESISTOR, fixed, composition, 130,000 ohms, $\pm 5\%$ , 1/2 watt	R1303	MP20315	Allen-Bradley	EB	3		RC20GF134
834	SWITCH, Bat-handle toggle. Over-all dimensions 1.625 in. lg x 1.5 in. wide x 0.5 in. thick. A SPDT switch.	S1301	MP60002	H & H Specialists	1136	6		

## EQUIPMENT (NOMENCLATURE) RE-RECORD EQUIPMENT

SHEET 136 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021

## PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
835	Same as S1301	S1302						
836	SWITCH, Rotary. Four pole, two position switch.	S1303	MP60005	Centralab	P123	3		
837	MP10920, HIGH-SPEED TAPE-TRANSPORT MECHANISM (RECORD). Over-all dimensions 17.4 in. high x 23.25 in. wide x 20.5 in. deep. Model 350-3R appears on nameplate of case.		MP10920	Ampex	5700	1		
838	MP10639, LOW-SPEED TAPE-TRANSPORT MECHANISM (PLAY-BACK). Over-all dimensions 17.4 in. high x 23.25 in. wide x 20.5 in. deep. Model 350-3R appears on nameplate of case.  In addition to the tape-transport parts listed in the Ampex Operation-and Maintenance Manual, the following replaceable modification parts are used in the low-speed tape-transport mechanism.		MP10639	Ampex (Modified)	5700 (Modified Per figures 1-25 and 5-15 of System 1 Instruction Guide, MP10010)	1		
839	BRACKET, Capstan-Motor Mounting. Made from aluminum. Square shape. Over-all dimensions 2.50 in. lg x 2.50 in. wide x 0.250 in. high. One hole in center 0.937 in. dia, four holes		MP10147	Ramo-Wooldridge	R-W Dwg. 50499020	1 Req. Per Ass'y.		

## EQUIPMENT (NOMENCLATURE) RE-RECORD EQUIPMENT

SHEET 137 OF SHEETS

NAME OF CONTRACTOR The Approved For Release 1999/09/08 : CIA-RDP81B00878R000200040001-0 CONTRACT R-W Project 5021

## PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
839	BRACKET, Capstan-Motor Mounting. (Cont'd.) 0.218 in. dia countersunk spaced equally 2.00 in. from the center at 90°. Four holes 0.147 in. dia tapped 10-24 spaced equally 2.625 in. from the center at 45°. Blackened.		MP10147	Ramo-Wooldridge	R-W Dwg. 50499020	1 Req. Per Ass'y.		
840	MOTOR, Capstan.	B1301	MP10640	TECDEV (Modified Per R-W Specifications)	S630-5C	1		
841	CAPACITOR, Capstan Motor Starting.	C1301	MP30066	TECDEV	Part of S630-5C Motor	1		
842	MP10404, COMPLETE ASSEMBLY OF POWER SUPPLIES (3) AND MOUNTING CASE. Over-all dimensions 9.5 in. high x 14.5 in. wide x 11.75 in. deep.		MP10404	Ampex	3741-1	1		
843	INTERCONNECTING CABLES. The cables are interconnected as shown in figure 1-24 of the System 1 Instruction Guide (MP10010). The interconnecting cables are tabulated below:							
844	POWER-SUPPLY EXTENSION CABLE.		MP63007	Ampex	3814	3		
844A	BIAS-INTERCONNECTING CABLE.		MP63008	Ampex	3814	2		

SHEET 138 OF SHEETS

EQUIPMENT (NOMENCLATURE)		RE-RECORD EQUIPMENT				SHEET 138 OF SHEETS		
NAME OF CONTRACTOR		The Ramo-Wooldridge Corporation				CONTRACT R-W Project 5021		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
845	POWER-INTERCONNECTING CABLE.	W1301	MP63010	Ampex	5759-1	1		
846	MODIFIED POWER-INTERCONNECTING CABLE. Ampex 5759-1 cable modified to include W1301 extension cable.		MP63011	Ampex (Modified)	5759-1 (Modified Per figure 5-17 of System 1 Instruction Guide, MP10010)	1		
847	W1301. A two-wire extension cable. One end has Cinch-Jones S-304-FHT-K connector. Other end of cable connected to J407P of Ampex 5759-1 cable. Wires join pins 1 and pins 2.		MP63026	Ramo-Wooldridge	None	1		
848	PRIMARY-POWER CABLE		MP63012	Ampex	None	1		

EQUIPMENT (NOMENCLATURE) AUXILIARY EQUIPMENT

SHEET 139 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
849	CABLE, Unit B Extension.	W511	MP63017	Ramo-Wooldridge	R-W Dwg. 50401567			
850	CABLE, Test Horn Feed. A 5-ft. piece of RG-9/U coaxial cable terminated at each end with a series N UG-21C/U plug.	W510	MP63014	Ramo-Wooldridge	None			
851	CABLE, Test-Set Primary-Power.	W507	MP63015	Tektronix	COP-16-8			
852	CABLE, Unit C1, Monitoring.	W513	MP63025	Ramo-Wooldridge	R-W Dwg. 50404081			
853	CABLE, Unit B Printed-Circuit-Board Test.		MP62997	Ramo-Wooldridge	R-W Dwg. 50401515			



EQUIPMENT (NOMENCLATURE)		AUXILIARY EQUIPMENT				PARTS DATA LIST		
NAME OF CONTRACTOR		CONTRACT						
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
854	CABLE, Unit B Monitoring.	W512	MP63021	Ramo-Wooldridge	R-W Dwg. 50401589			
855	DE-MAGNETIZER, Head.		MP10143	Ampex	704			
856	HEADPHONES (2000-ohm impedance).		MP10505	Trimm	Featherweight Headset 104			
857	TOOL KIT, Electronic Technician.		MP10190					
858	TOOL KIT, Laboratory.		MP10192					

## EQUIPMENT (NOMENCLATURE) AUXILIARY EQUIPMENT

SHEET 141 OF SHEETS

NAME OF CONTRACTOR

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PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
359	DOLLY, Table Top.		MP10415	Magnesium Co. of Am.	M-126			
860	TAPE, Measuring. 6 ft. steel.		MP10507					
861	JIG, Test (for Unit B Printed-Circuit Board).		MP10225	Ramo-Wooldridge				
862	METER, Tension (0 - 3 oz.).		MP10207	CARPO (Dist. by George Scherr)	0 - 3 oz.			
863	METER, Tension (4 - 32 oz.).		MP10165	CARPO (Dist. by George Scherr)	4 - 32 oz.			

SHEET 142 OF SHEETS

## EQUIPMENT (NOMENCLATURE) AUXILIARY EQUIPMENT

NAME OF CONTRACTOR The Radio-Woodbridge Corporation CONTRACT R-W Project 5021

## PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
864	OSCILLATOR, Audio. 5 cps - 600 kc. Output 20 Volts (no load) Internal impedance: 600 ohms		MP10206	Hewlett-Packard	200CD			
865	OSCILLOSCOPE. Driven sweep to 0.1 microsecond per cm. (Requires plug-in preamplifier).		MP10218	Tektronix	531			
866	PREAMPLIFIER, Plug-In. High gain. Sensitivity: 5mv./cm. Frequency response to 9 mc. Used with Oscilloscope MP10218.		MP10148	Tektronix	53B			
867	PREAMPLIFIER, Plug-In. Dual trace. Sensitivity: 0.05 v./cm. Frequency response to 8.5 mc. Used with Oscilloscope MP10218.		MP10230	Tektronix	53C			

EQUIPMENT (NOMENCLATURE)

AUXILIARY EQUIPMENT

SHEET 143 OF SHEETS

NAME OF CONTRACTOR The Ramo-Wooldridge Corporation

CONTRACT

R-W Project 5621

PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
868	PROBE, Oscilloscope. Attenuator.		MP10187	Tektronix	P510A			
869	VOLTMETER, Vacuum-Tube. Frequency response: 20 cps-700 mc. Range: 0-300 volts ac and dc. Input resistance and capacitance: 10 megohms, 1.5 micro-microfarads.		MP10213	Hewlett-Packard	410B			
870	VOLTMETER, Vacuum Tube. Measures a-c volts, d-c volts, resistance, and power level (db).		MP10702	TRIPLETT	631			
871	METER, Flutter. 0 - 0.5% and 0 - 2% ranges.		MP10194	D & R	FL-36			
872	TACHOMETER, Stroboscopic.		MP10188	General Radio	631-BL			

## EQUIPMENT (NOMENCLATURE): AUXILIARY EQUIPMENT

SHEET 144 OF SHEETS

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NAME OF CONTRACTOR The Ramo-Wooldridge Corporation CONTRACT R-W Project 5021 PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
873	METER, Frequency. Portable. 56 - 64 cps range.		MPI0208	J. B. T. Instrument	34 - FP-9M			
874	HORN, Unit A1 Test.		MPI0405	De Mornay Bonardi	DEL-S-127			
875	HORN, Unit A2 Test.		MPI0313	Waveguide	(to R-W Specification)			
876	TRIPOD, Test Horn (Modified). Includes Star-D-Conquest. Tripod manufactured by Davidson, and Panoramic Head manufactured by Linhof.		MPI0506	Davidson and Linhof				

EQUIPMENT (NOMENCLATURE)		AUXILIARY EQUIPMENT						
NAME OF CONTRACTOR		The Ramo-Wooldridge Corporation CONTRACT				R-W Project 5021		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
877	MOUNT, Unit A1 Test-Horn.		MP10654	Ramo-Wooldridge	R-W Dwg. 50403352			
878	MOUNT, Unit A2 Test-Horn.		MP10656	Ramo-Wooldridge	R-W Dwg. 50403353			
879	KNOB, Tape editing. Used with 10-1/2 in. NARTE Tape reel.		MP10191					
880	REEL, Magnetic Tape. 10-1/2 in. NARTE.		MP10177					

## EQUIPMENT (NOMENCLATURE) AUXILIARY EQUIPMENT

SHEET 146 OF SHEETS

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CONTRACT

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PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
881	TAPE, Magnetic. 0.250-in. wide, 6500-ft. Reels, .0005 Mylar.		MP10145	Audiotape	A50144			
882	TAPE, Magnetic. 0.250-in. wide, NARTD 3600-ft. Reels, Mylar.		MP10146	Minnesota Mining	190A-36R-100G			
883	TAPE, Splicing.		MP10164	Minnesota Mining	41			
884	SPLICER, Tape.		MP10173	Robins Industries	Gibson Girl			

EQUIPMENT (NOMENCLATURE) AUXILIARY EQUIPMENT

SHEET 147 OF SHEETS

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PARTS DATA LIST

1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
885	TAPE, Magnetic Test.		MP10144	Ampex	6000-A1			
886	CEMENT. 7-1/2 oz. Tube.		MP10220	Presstite Engineering	Zorlock			
887	CHEESECLOTH. (10 yd. Roll).		MP10219					
888	DESICCANT. (1 lb.)		MP10212	Socony Vacuum	Sovabead			
889	OIL, Instrument. (4-oz. Bottle).		MP10156					



EQUIPMENT (NOMENCLATURE)		AUXILIARY EQUIPMENT						
NAME OF CONTRACTOR		The Ramo-Woolridge Corporation		CONTRACT		R-W Project 5021		
1	2	3	4	5	6	7	8	9
ITEM NO.	COMPLETE DESCRIPTION OF ITEM	CIRCUIT SYMBOL	CONTRACTOR'S STOCK NO.	ACTUAL MFG. OF ITEM	MFG. TYPE OR STOCK NO.	ITEMS PER EQUIPMENT	RECOMMENDED QUAN. PER EQUIPMENT	JAN TYPE
890	ALCOHOL, Grain. (1 Gal.)		MPI0223					
891	TAPE, Electrical. (1/2 in. wide.)		MPI0229	Minnesota Mining	33			

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**PARTS-DATA LIST**

**SECTION III**

**NAMES AND ADDRESSES OF MANUFACTURERS**

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